Appendix D

Fits to data

The figures in this Appendix show the fits to the photometry for the models detailed in Chapter 5. The fits for the sources that were modelled in Chapter 5 are shown from page 188. Page 247 shows the fits to the two extra sources from the near-infrared polarimetry of Chapter 6, and the fits for the sources without redshifts (as discussed in Section 5.8) are shown from page 248. Each figure contains a number of sections, showing different observations and different model fitting results.

The panel at the top-right shows the basic data for the source. There is an entry in the "other name" section if there is another common name that the source is known by. The classification is that given by Drinkwater et al. (1997). If the source is a BL Lac or BL Lac candidate, this is also stated, together with a reference for this status. This reference is either PG95, representing Padovani and Giommi (1995) (the primary source of BL Lac classifications) or VV00, representing Véron-Cetty and Véron (2000). The galactic extinction from Schlegel et al. (1998) is given, and is converted into a B-band absorption. The B magnitude and $B-K$ colour are given, as is the absolute magnitude M_V (calculated according to Section 4.4).

The photometry is shown in the centre-left panel. The magnitudes from Table B.1 have been converted into fluxes according to the zero magnitude fluxes from Table 4.1, and plotted on a log-log scale against wavelength. The two models – the power law fit and the combined fit – are also shown. The best fit is plotted with a solid line, while the other (if it is a viable fit – see Chapter 5 for details) is plotted with a dashed line. If the best fit model is the combined model, the two individual components are shown with dotted lines. Locations of well-known emission lines, placed at the redshift of the source, are shown along the top.

The centre-right panel has two parts. The plot shows the values of χ^2/ν for each value of λ_p that was considered for the combined fit. If the fit was viable (i.e. if the normalisations of the two fitted components were both positive), then the symbol used is a circle, while a dot is used if the fit is not viable. The χ^2/ν value of the power law fit is shown by the (lower) horizontal line. If the source was too blue to fit the combined model to, then a second horizontal line shows the χ^2/ν value from a fit with just the BBB power law (i.e. $\lambda^{-1.7}$) component. This plot then provides a graphical way of seeing which model was better, and how well constrained the peak wavelength is. Next to this plot are the basic details of the best model fit. This includes the fitted model parameters (the power law index and the peak wavelength), the χ^2/ν value and ν, the number of degrees of freedom. Also shown, for combined fits, are the ratio of the synchrotron to the power law component and to the total flux, at 0.5μm (rest frame).

At the top-left is a graph of any polarisation measurements. These are either the NIR polarisation measurements from Chapter 6 (shown in circles), measurements from Wills et al. (1992) (squares), or measurements from Impey and Tapia (1990) (diamonds). The latter two, being un-filtered optical measurements, are plotted at an arbitrary wavelength of 0.5μm, and thus are for illustrative purposes only (they are not simultaneous with any of the other observations – see Chapter 6). The polarisation is plotted on a linear scale, against wavelength on the same log scale as the photometry.

The bottom-left shows the optical spectrum, where one exists in our data-base (the analysis of these spectra is presented in Francis et al. (2001)). This is plotted on a log-log scale with f_λ against λ (again to match the scales on the photometry plot). Locations of prominent emission lines, placed at the redshift of the source, are shown along the top.

Finally, the broad-band SED is shown in the bottom-right. The observations are from a number of sources:

RADIO: The radio observations come from three sources: the circles are the four simultaneous fluxes obtained made with the ATCA; the triangles are the two PKSCAT90 fluxes (Wright and Otrupcek 1990) used to define the PHFS; and finally, the crosses are simultaneous observations from the large survey by Kovalev et al. (1999).

IRAS: Fluxes from the *IRAS* Point Source Catalog are shown. The symbols indicate the level of confidence of the detection: circles and squares indicate detections (of high and moderate quality), while crosses indicate upper limits.

OPT: The optical–NIR photometry discussed in this thesis is shown in the optical region. Also shown in this region is the best fit model, plotted between 10^{13} Hz and $10^{15.5}$ Hz, together with the individual components for the combined fits.

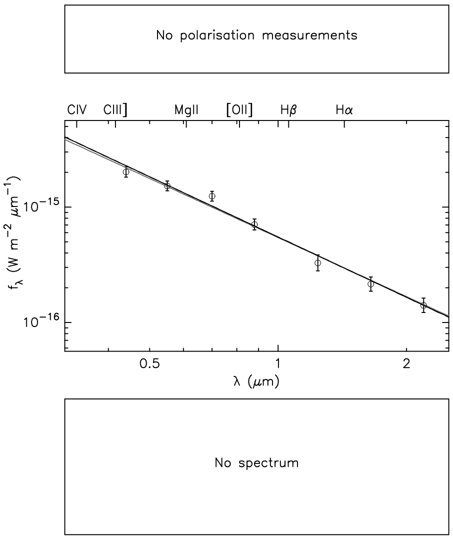
X-RAY: The X-ray fluxes are taken from Siebert et al. (1998). The X-ray slope used is either that explicitly given therein, or the average values for quasars, galaxies or BL Lacs that they calculate. The error in the X-ray slope is also shown. If the source is not detected (i.e. the flux is an upper limit), the bow-tie is plotted with a dotted line.

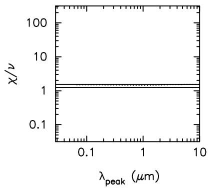
EGRET: Fluxes from the Third *EGRET* Catalogue (Hartman et al. 1999) are shown, either as a square (for detections) or a triangle (for upper limits).

Finally, please note that the combined fit shown for PKS 2245−328 is clearly unphysical, and should be disregarded. We take the best fit to be the power law fit given in Table C.1.

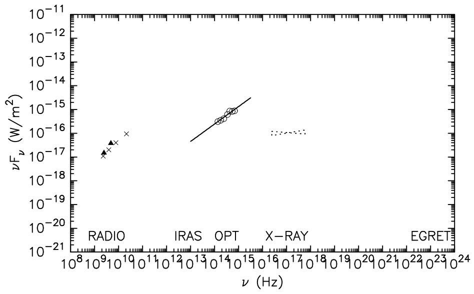
PKS 0038−020, z=1.178

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.022 mag; A_B = 0.097 mag
B = 18.74 B−K = 2.58 M_V = −24.95



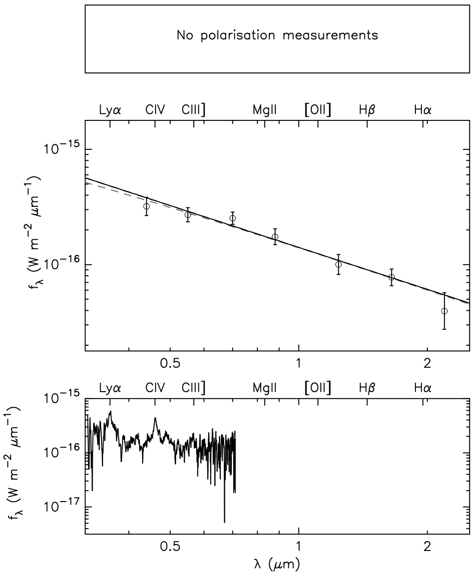


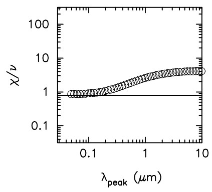
Best model: POWER LAW
Best χ^2/ν = 1.240 (ν=5)
Power law index = −1.73
No synchrotron component



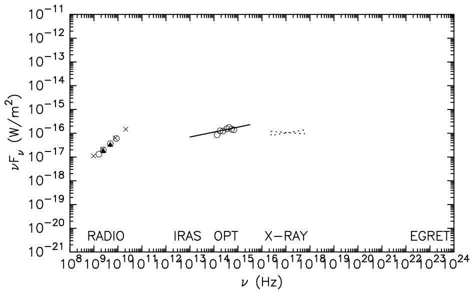
PKS 0048−071, z=1.974

Other name: OB −082
Classification: faint source
Galactic E(B−V) = 0.058 mag; A_B = 0.252 mag
B = 20.74 B−K = 3.20 M_V = −24.92

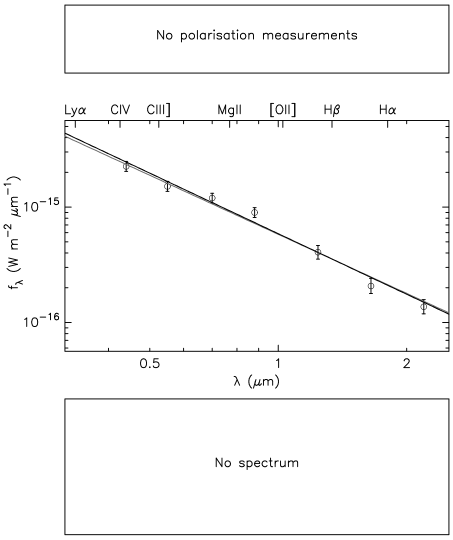




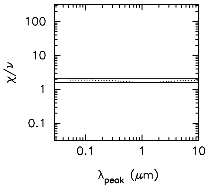
Best model: POWER LAW
Best χ^2/ν = 0.799 (ν=5)
Power law index = −1.21
No synchrotron component



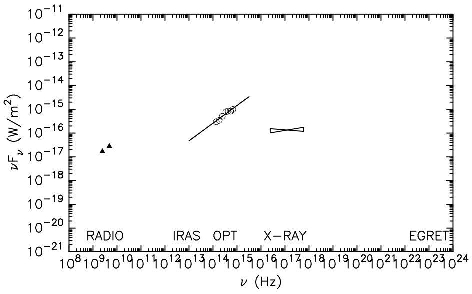
PKS 0048−427, z=1.749



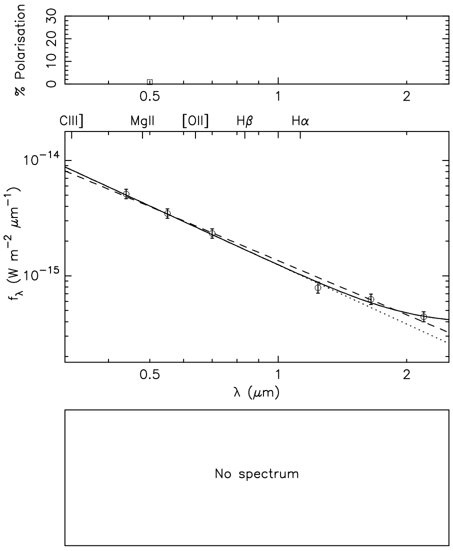
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.012 mag; A_B = 0.052 mag
B = 18.62 B−K = 2.43 M_V = −25.94



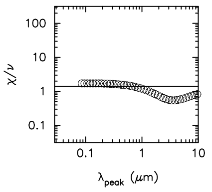
Best model: POWER LAW
Best χ^2/ν = 1.614 (ν=5)
Power law index = −1.74
No synchrotron component



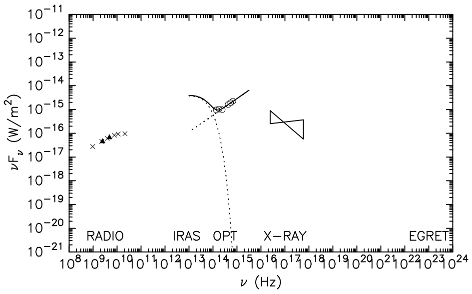
PKS 0056−001, z=0.717



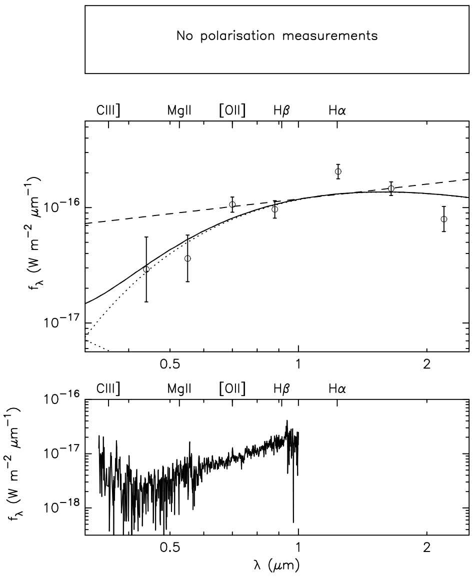
Other name: LBQS 0056−0009
Classification: stellar source
Galactic E(B−V) = 0.027 mag; A_B = 0.115 mag
B = 17.73 B−K = 2.81 M_V = −24.54



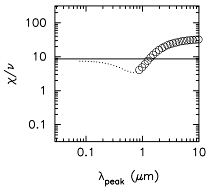
Best model: COMBINED
Best χ^2/ν = 0.544 (ν=3)
Power law index = −1.70
λ_{peak} (synch.) = 3.82 μm
0.5 μm ratio = 0.00
0.5 μm fraction = 0.1%



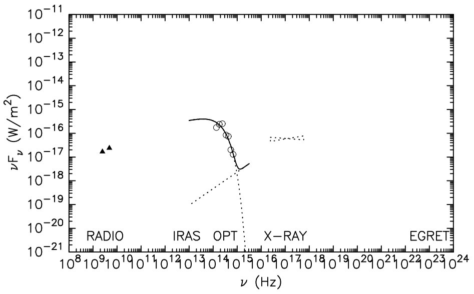
PKS 0131−001, z=0.879



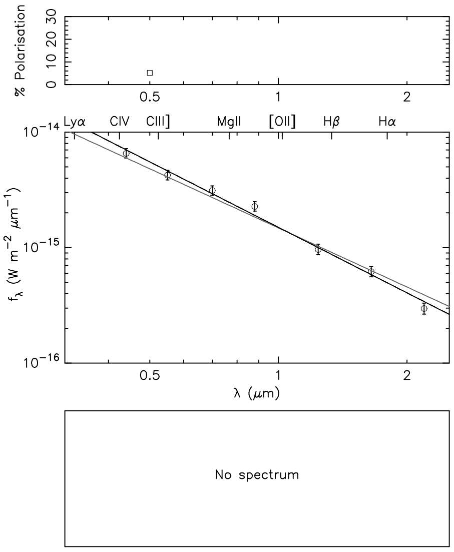
Other name: 4C −00.11
Classification: faint source
Galactic E(B−V) = 0.037 mag; A_B = 0.159 mag
B = 23.34 B−K = 6.56 M_V = −22.06



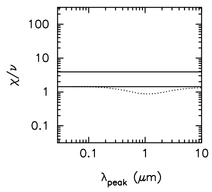
Best model: COMBINED
Best χ^2/ν = 4.071 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.88 μm
0.5 μm ratio = 99.50
0.5 μm fraction = 99.0%



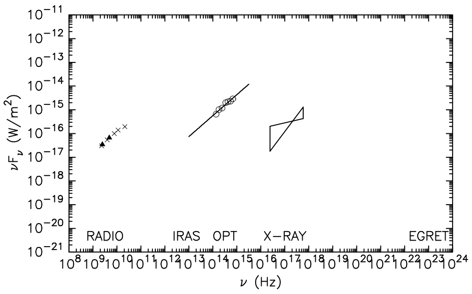
PKS 0202−172, z=1.74



Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.031 mag; A_B = 0.135 mag
B = 17.46 B−K = 2.11 M_V = −26.81



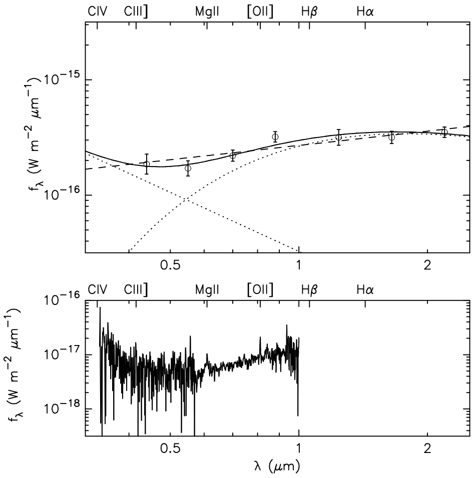
Best model: POWER LAW
Best χ^2/ν = 1.437 (ν=5)
Power law index = −1.88
No synchrotron component

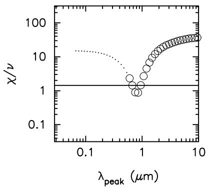


PKS 0213−026, z=1.178

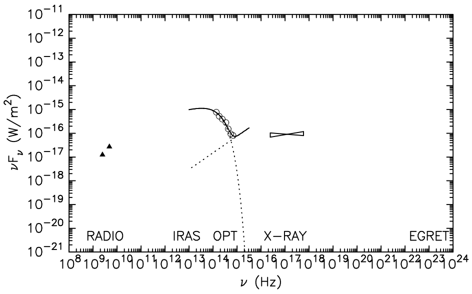
No polarisation measurements

Other name: 4C −02.09
Classification: faint source
Galactic E(B−V) = 0.026 mag; A_B = 0.111 mag
B = 21.33   B−K = 6.16 M_V = −24.61





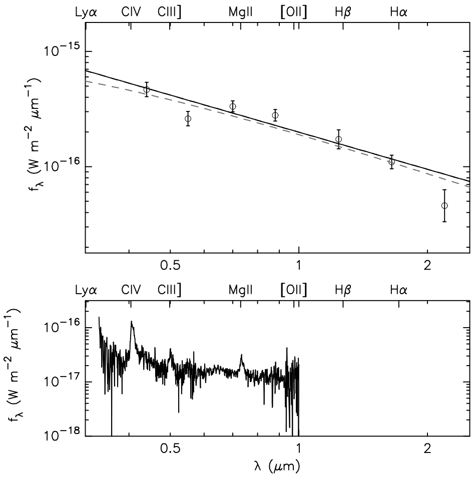
Best model: COMBINED
Best χ^2/ν = 0.870 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.85 μm
0.5 μm ratio = 10.16
0.5 μm fraction = 91.0%

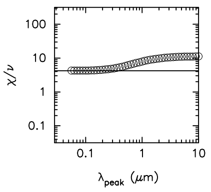


PKS 0216+011, z=1.61

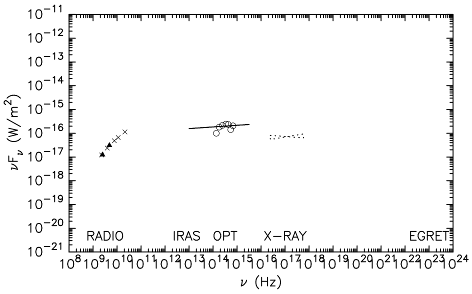
No polarisation measurements

Other name: −−
Classification: faint source
Galactic E(B−V) = 0.034 mag; A_B = 0.146 mag
B = 20.33   B−K = 2.95 M_V = −24.64





Best model: POWER LAW
Best χ^2/ν = 4.221 (ν=5)
Power law index = −1.07
No synchrotron component

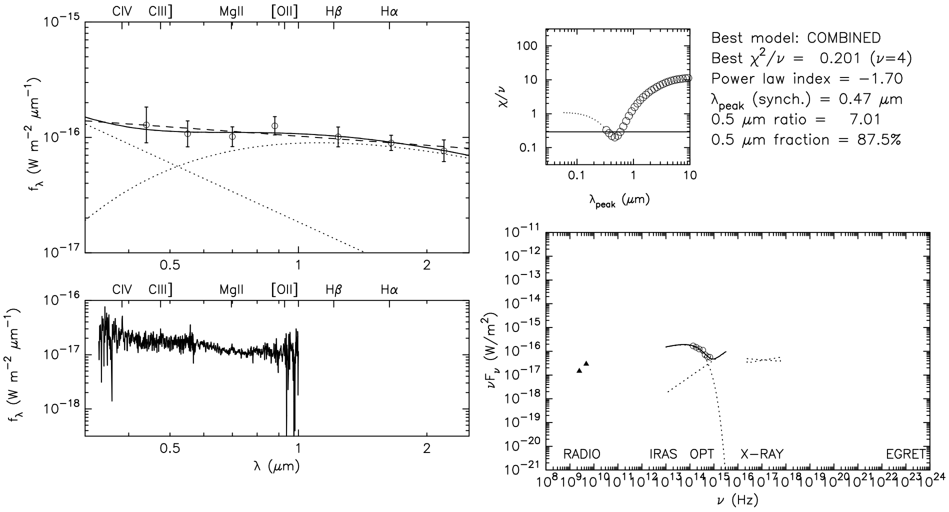


PKS 0220−349, z=1.49

No polarisation measurements

Other name: −−
Classification: faint source
Galactic E(B−V) = 0.018 mag; A_B = 0.078 mag
B = 21.73 B−K = 4.91 M_V = −24.10

Best model: COMBINED
Best χ^2/ν = 0.201 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.47 μm
0.5 μm ratio = 7.01
0.5 μm fraction = 87.5%

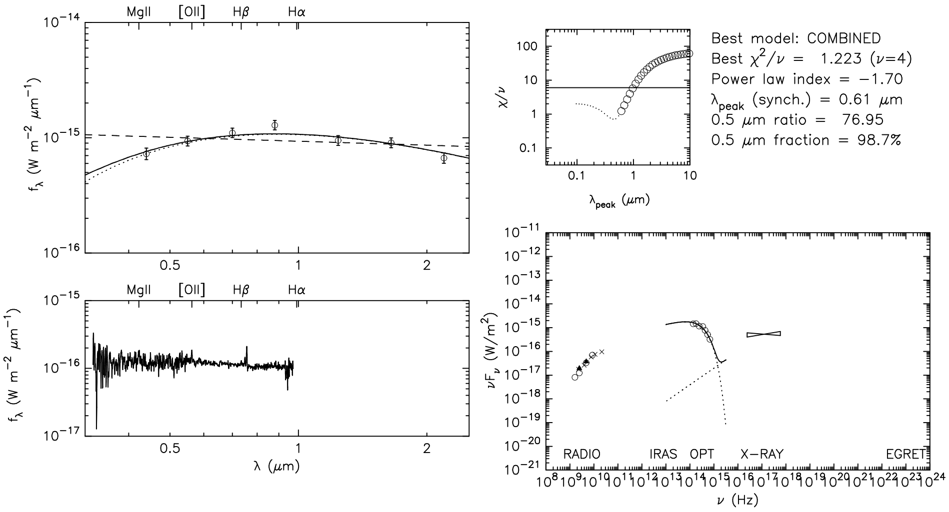


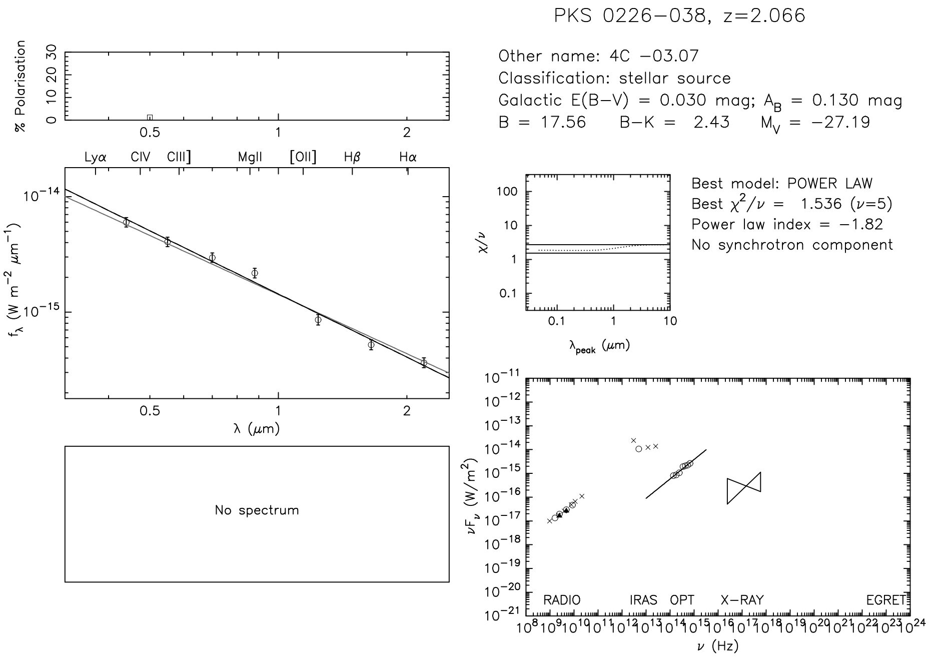
PKS 0221+067, z=0.51

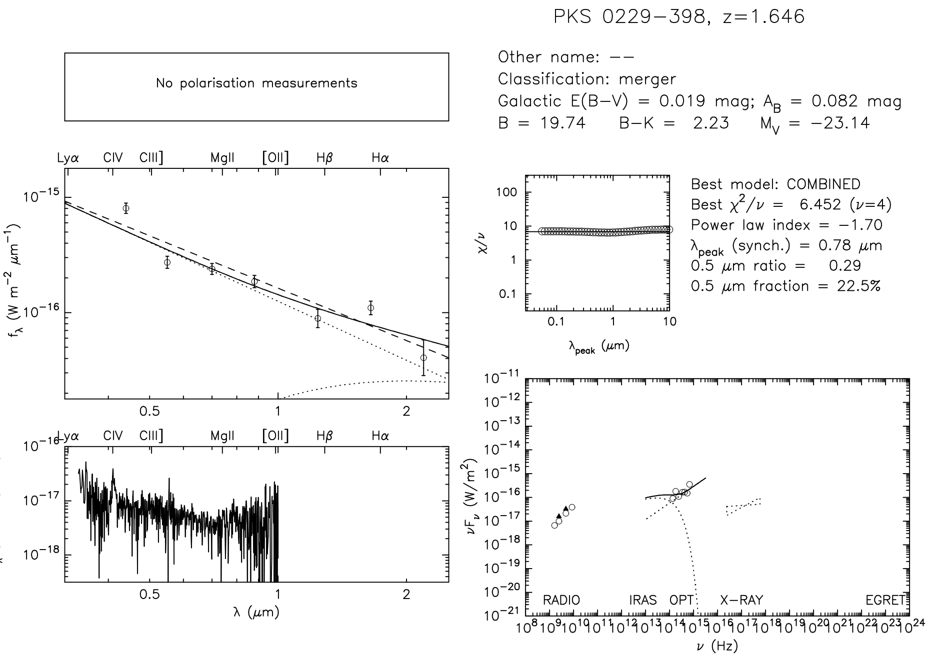
No polarisation measurements

Other name: 4C +06.11
Classification: stellar source
Galactic E(B−V) = 0.074 mag; A_B = 0.321 mag
B = 19.85 B−K = 5.38 M_V = −23.59

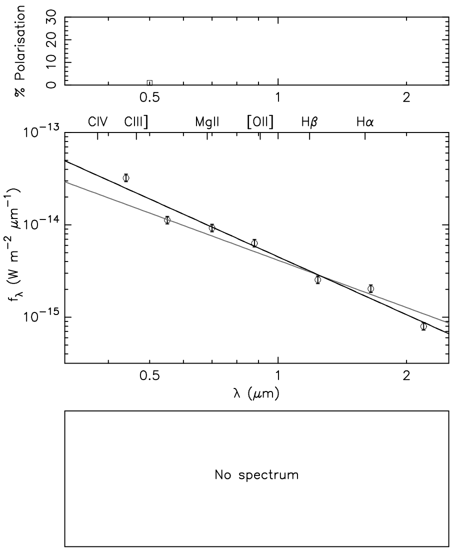
Best model: COMBINED
Best χ^2/ν = 1.223 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.61 μm
0.5 μm ratio = 76.95
0.5 μm fraction = 98.7%



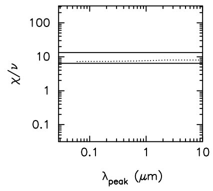

PKS 0226−038, z=2.066
Other name: 4C −03.07
Classification: stellar source
Galactic E(B−V) = 0.030 mag; A_B = 0.130 mag
B = 17.56 B−K = 2.43 M_V = −27.19
Best model: POWER LAW
Best χ^2/ν = 1.536 (ν=5)
Power law index = −1.82
No synchrotron component
% Polarisation
Lyα CIV CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
No spectrum
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X-RAY EGRET
ν (Hz)


PKS 0229−398, z=1.646
Other name: −−
Classification: merger
Galactic E(B−V) = 0.019 mag; A_B = 0.082 mag
B = 19.74 B−K = 2.23 M_V = −23.14
No polarisation measurements
Best model: COMBINED
Best χ^2/ν = 6.452 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.78 μm
0.5 μm ratio = 0.29
0.5 μm fraction = 22.5%
Lyα CIV CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X-RAY EGRET
ν (Hz)

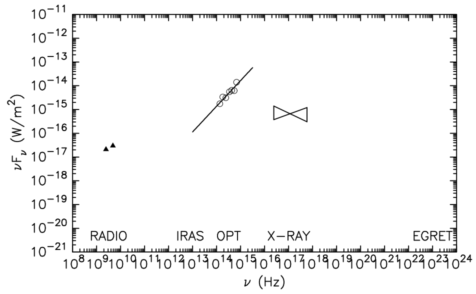
PKS 0232−042, z=1.437



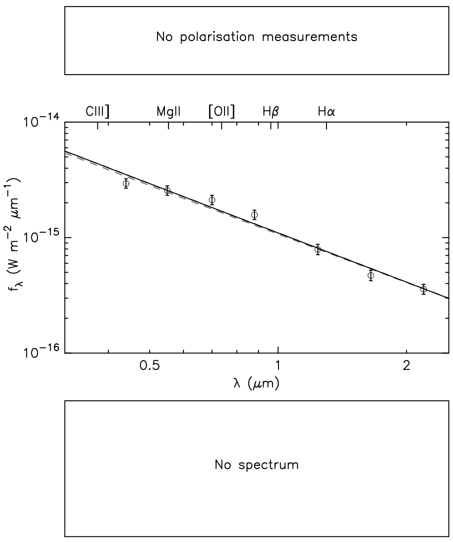
Other name: 4C −04.06
Classification: stellar source
Galactic E(B−V) = 0.023 mag; A_B = 0.100 mag
B = 15.73 B−K = 1.45 M_V = −26.81



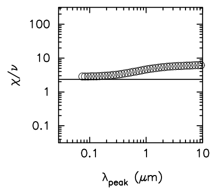
Best model: POWER LAW
Best χ^2/ν = 6.444 (ν=5)
Power law index = −2.08
No synchrotron component



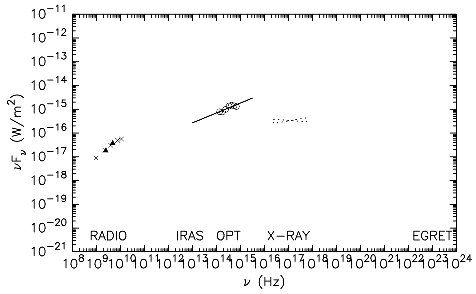
PKS 0237+040, z=0.978



Other name: OD +062
Classification: stellar source
Galactic E(B−V) = 0.046 mag; A_B = 0.198 mag
B = 18.33 B−K = 3.18 M_V = −25.50



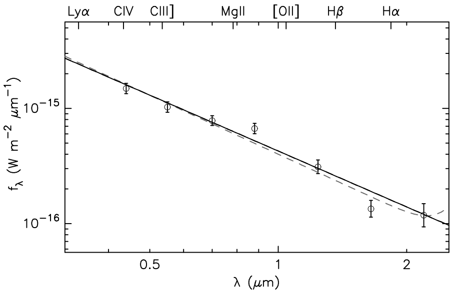
Best model: POWER LAW
Best χ^2/ν = 2.343 (ν=5)
Power law index = −1.42
No synchrotron component

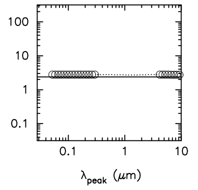


PKS 0240−060, z=1.8

No polarisation measurements

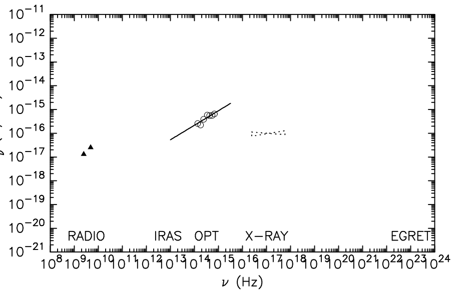
Other name: OD −068
Classification: stellar source
Galactic E(B−V) = 0.031 mag; A_B = 0.133 mag
B = 19.07 B−K = 2.72 M_V = −25.73



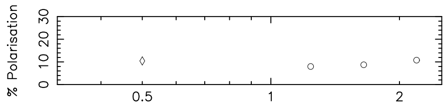


Best model: POWER LAW
Best χ^2/ν = 2.392 (ν=5)
Power law index = −1.61
No synchrotron component

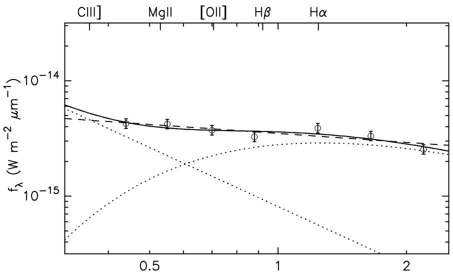
No spectrum

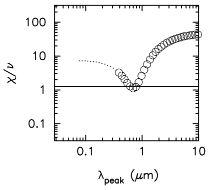


PKS 0537−441, z=0.893

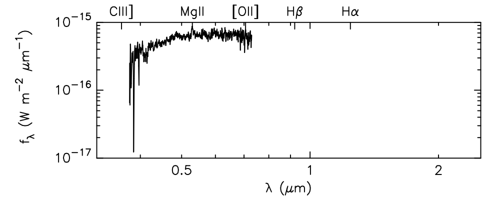


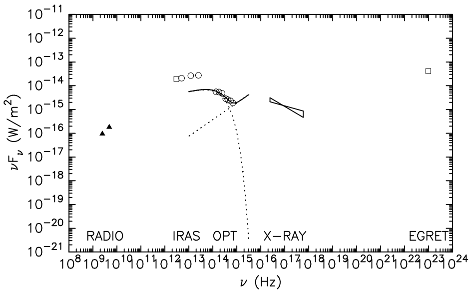
Other name: −−
Classification: stellar source, BL Lac (PG95)
Galactic E(B−V) = 0.038 mag; A_B = 0.163 mag
B = 17.93 B−K = 4.91 M_V = −26.16



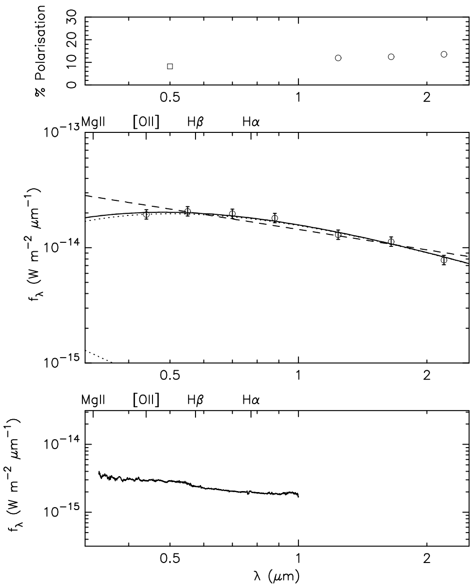


Best model: COMBINED
Best χ^2/ν = 1.114 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.69 μm
0.5 μm ratio = 3.07
0.5 μm fraction = 75.4%

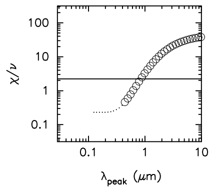




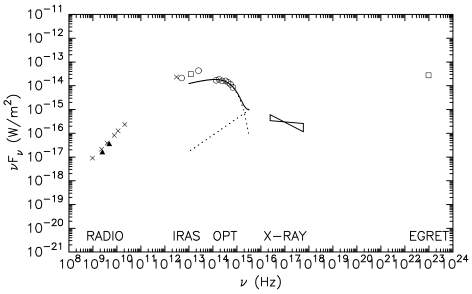
PKS 0829+046, z=0.18



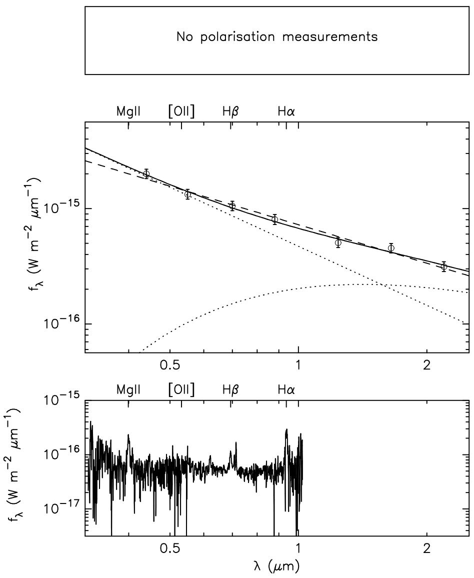
Other name: OJ +049
Classification: stellar source, BL Lac (PG95)
Galactic E(B−V) = 0.033 mag; A_B = 0.141 mag
B = 16.28 B−K = 4.48 M_V = −23.92



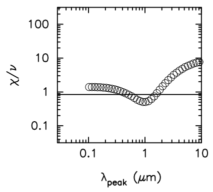
Best model: COMBINED
Best χ^2/ν = 0.460 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.44 μm
0.5 μm ratio = 43.47
0.5 μm fraction = 97.8%



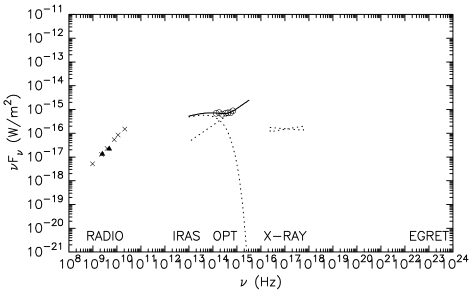
PKS 0912+029, z=0.427



Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.035 mag; A_B = 0.153 mag
B = 18.75 B−K = 3.46 M_V = −22.65



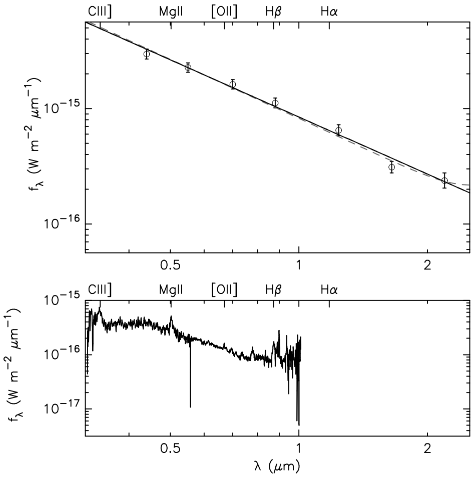
Best model: COMBINED
Best χ^2/ν = 0.503 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.03 μm
0.5 μm ratio = 0.18
0.5 μm fraction = 15.5%

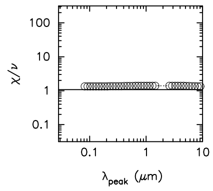


PKS 1016−311, z=0.794

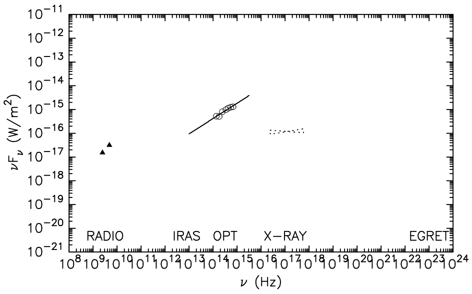
No polarisation measurements

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.056 mag; A_B = 0.241 mag
B = 18.32 B−K = 2.73 M_V = −24.53

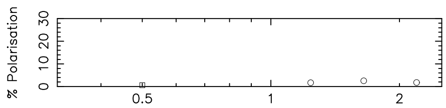




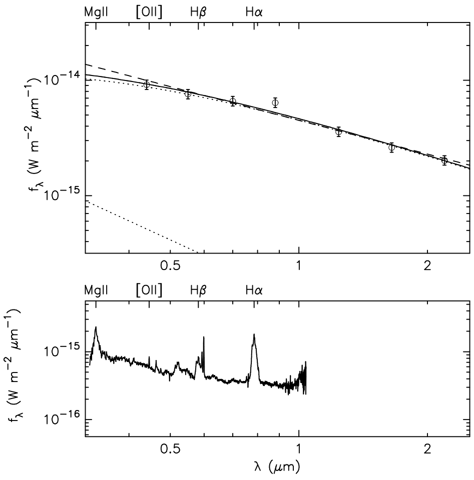
Best model: POWER LAW
Best χ^2/ν = 1.080 (ν=5)
Power law index = −1.65
No synchrotron component

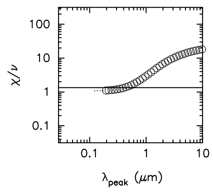


PKS 1020−103, z=0.1966

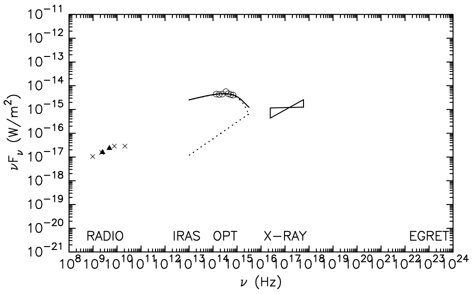


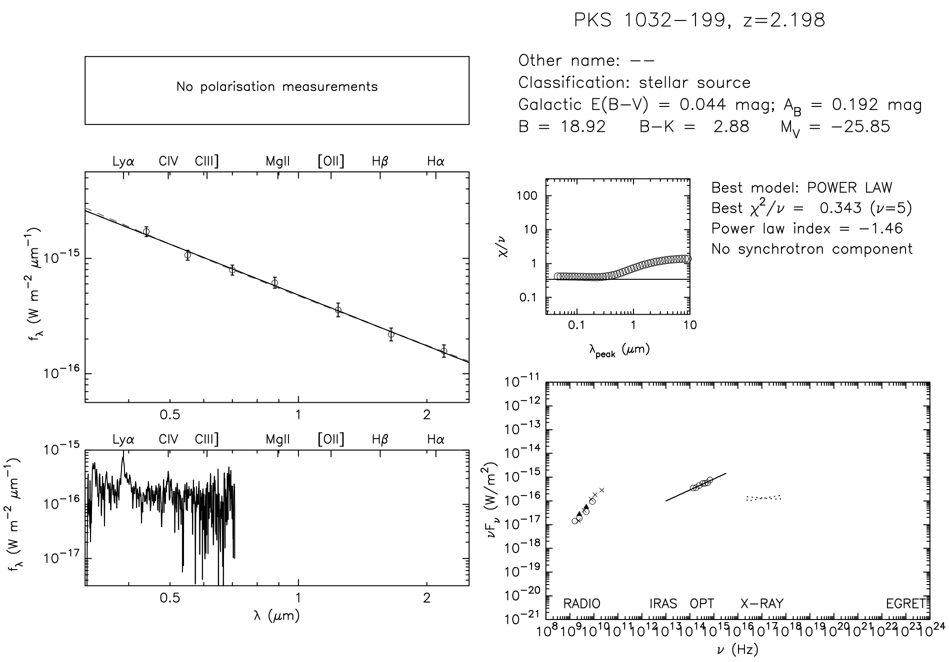
Other name: OL −133
Classification: stellar source
Galactic E(B−V) = 0.046 mag; A_B = 0.200 mag
B = 17.10 B−K = 3.83 M_V = −22.96

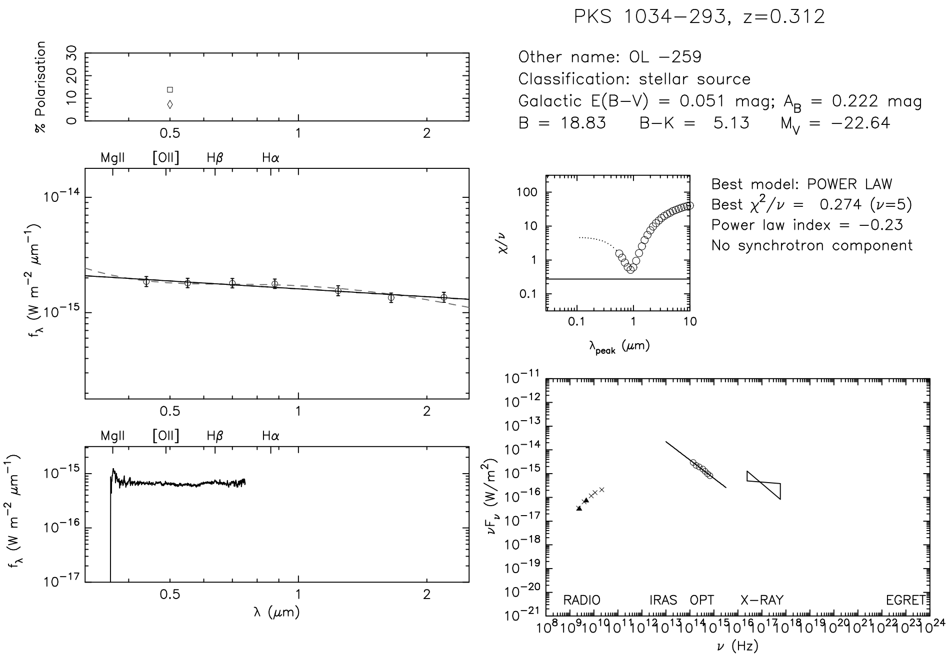




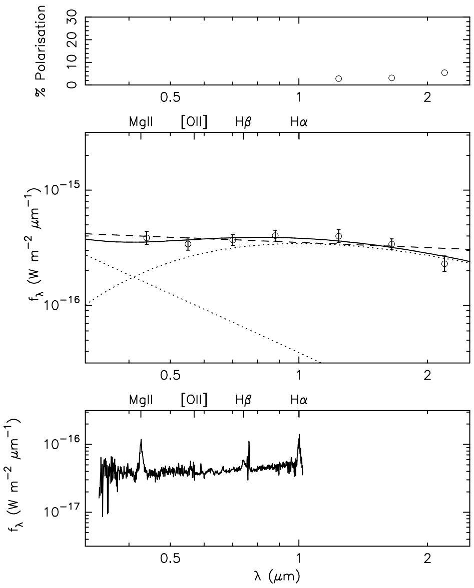
Best model: COMBINED
Best χ^2/ν = 1.102 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.19 μm
0.5 μm ratio = 23.22
0.5 μm fraction = 95.9%



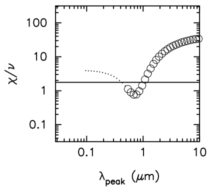

PKS 1032−199, z=2.198
No polarisation measurements
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.044 mag; A_B = 0.192 mag
B = 18.92 B−K = 2.88 M_V = −25.85
Best model: POWER LAW
Best χ²/ν = 0.343 (ν=5)
Power law index = −1.46
No synchrotron component
Lyα CIV CIII] MgII [OII] Hβ Hα
λ (μm)
λ_peak (μm)
ν (Hz)
RADIO IRAS OPT X-RAY EGRET


PKS 1034−293, z=0.312
% Polarisation
Other name: OL −259
Classification: stellar source
Galactic E(B−V) = 0.051 mag; A_B = 0.222 mag
B = 18.83 B−K = 5.13 M_V = −22.64
Best model: POWER LAW
Best χ²/ν = 0.274 (ν=5)
Power law index = −0.23
No synchrotron component
MgII [OII] Hβ Hα
λ (μm)
λ_peak (μm)
ν (Hz)
RADIO IRAS OPT X-RAY EGRET

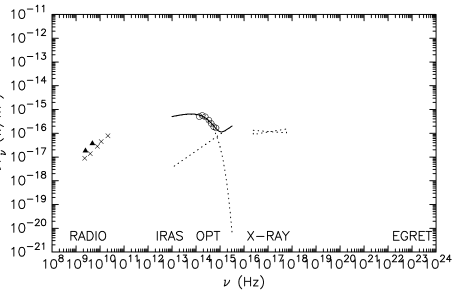
PKS 1036−154, z=0.525



Other name: OL −161
Classification: stellar source
Galactic E(B−V) = 0.065 mag; A_B = 0.283 mag
B = 20.54 B−K = 4.91 M_V = −22.27



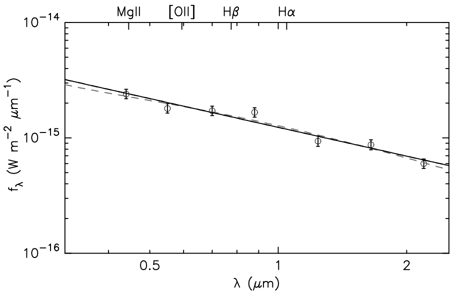
Best model: COMBINED
Best χ^2/ν = 0.767 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.68 μm
0.5 μm ratio = 5.30
0.5 μm fraction = 84.1%

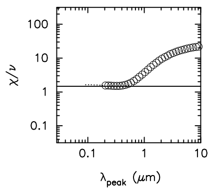


PKS 1045−188, z=0.595

No polarisation measurements

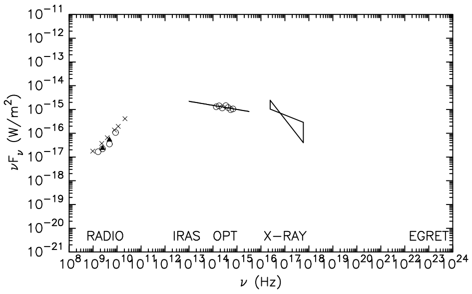
Other name: OL −176
Classification: stellar source
Galactic E(B−V) = 0.038 mag; A_B = 0.165 mag
B = 18.55 B−K = 3.96 M_V = −24.12



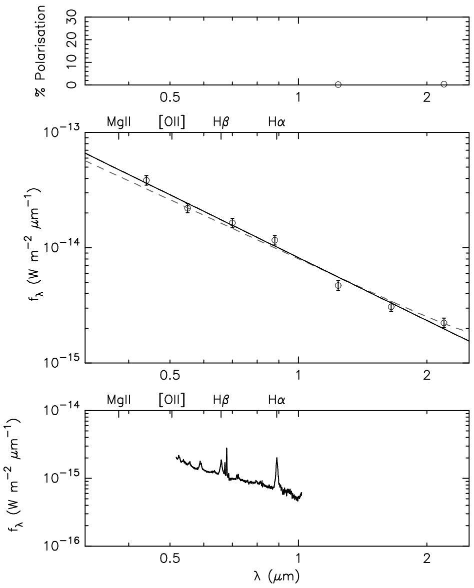


Best model: POWER LAW
Best χ^2/ν = 1.477 (ν=5)
Power law index = −0.83
No synchrotron component

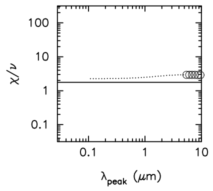
No spectrum



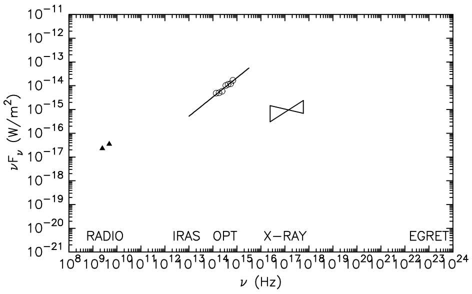
PKS 1101−325, z=0.3554



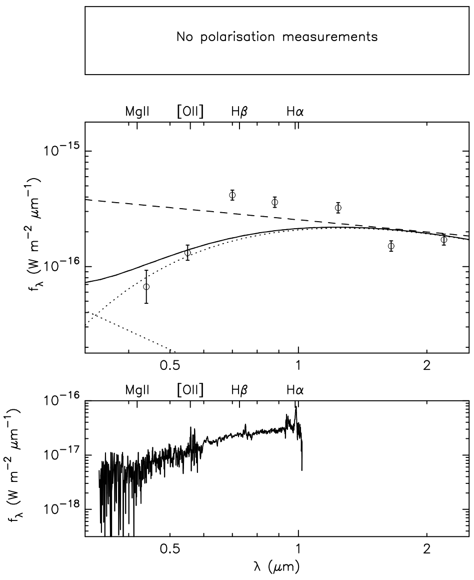
Other name: CTS 0010
Classification: stellar source
Galactic E(B−V) = 0.094 mag; A_B = 0.406 mag
B = 15.54   B−K = 2.38 M_V = −25.16



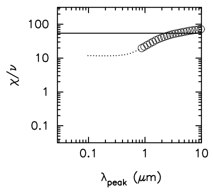
Best model: POWER LAW
Best χ^2/ν = 1.773 (ν=5)
Power law index = −1.81
No synchrotron component



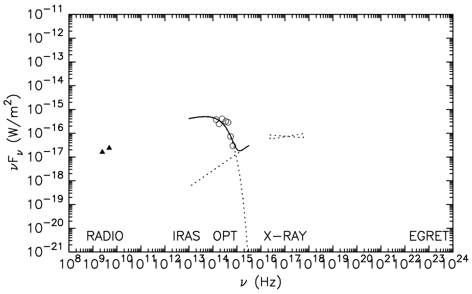
PKS 1107−187, z=0.497



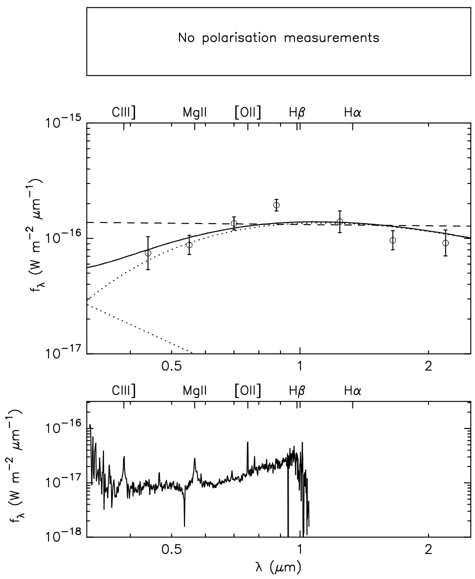
Other name: OM −112.5
Classification: faint source
Galactic E(B−V) = 0.043 mag; A_B = 0.184 mag
B = 22.44   B−K = 6.49 M_V = −21.94



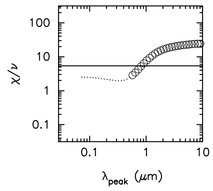
Best model: COMBINED
Best χ^2/ν = 19.656 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.87 μm
0.5 μm ratio = 18.36
0.5 μm fraction = 94.8%



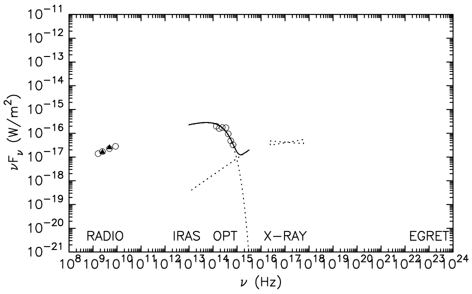
PKS 1133−172, z=1.024



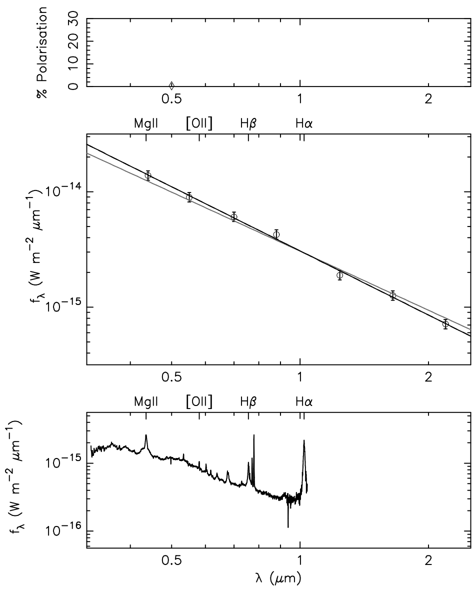
Other name: OM −156
Classification: faint source
Galactic E(B−V) = 0.033 mag; A_B = 0.143 mag
B = 22.32   B−K = 5.69 M_V = −23.82



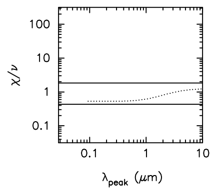
Best model: COMBINED
Best χ^2/ν = 2.865 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.58 μm
0.5 μm ratio = 36.42
0.5 μm fraction = 97.3%



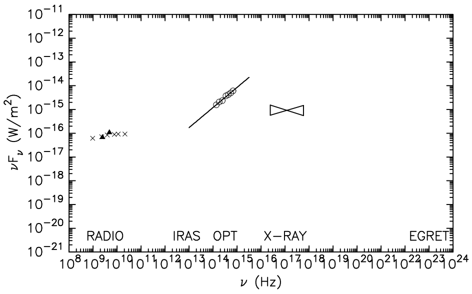
PKS 1136−135, z=0.5566

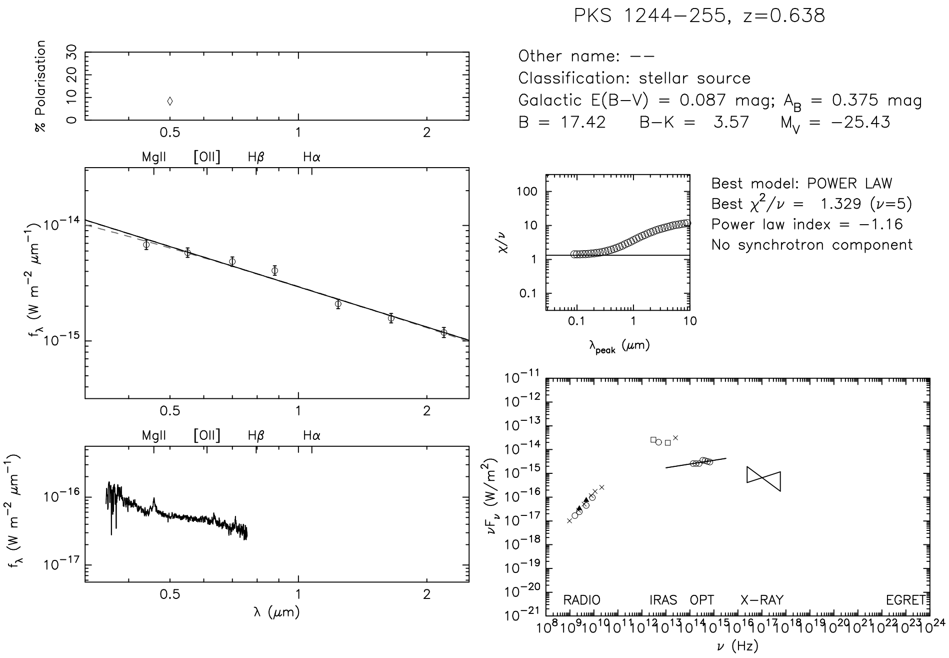


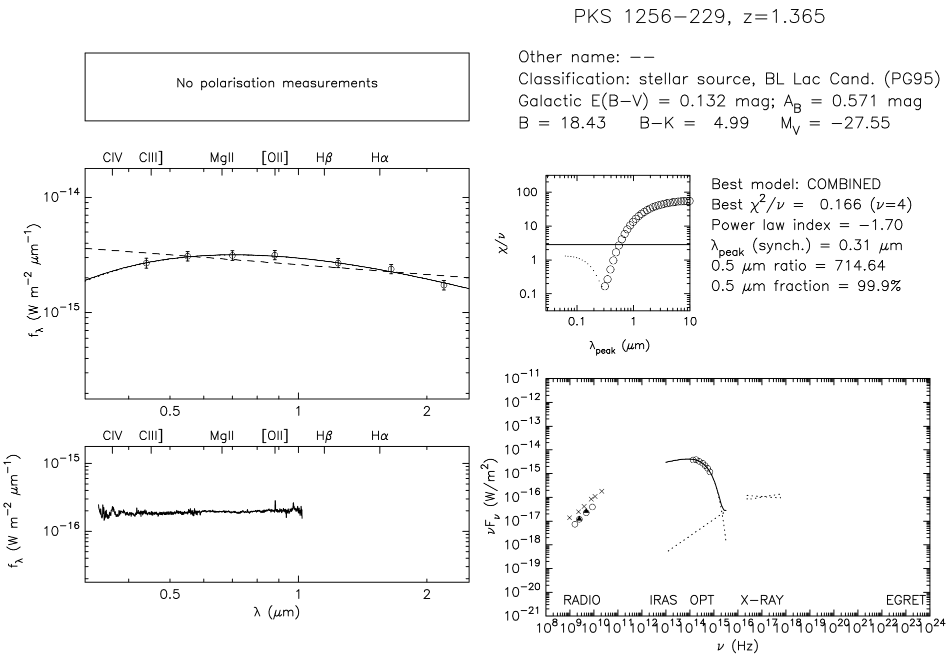
Other name: CTS 0667
Classification: stellar source
Galactic E(B−V) = 0.039 mag; A_B = 0.170 mag
B = 16.65   B−K = 2.25 M_V = −25.11



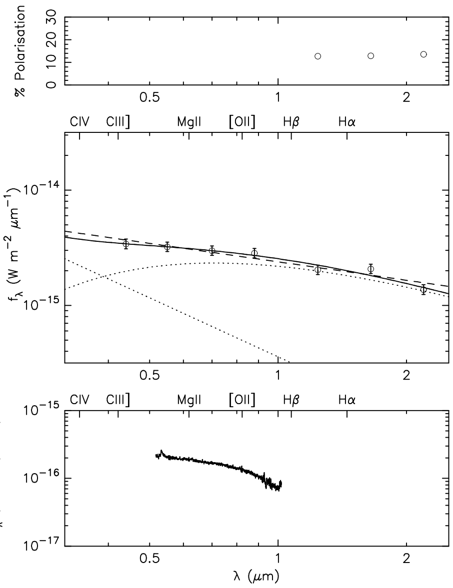
Best model: POWER LAW
Best χ^2/ν = 0.431 (ν=5)
Power law index = −1.85
No synchrotron component



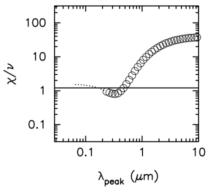

PKS 1244−255, z=0.638
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.087 mag; A_B = 0.375 mag
B = 17.42 B−K = 3.57 M_V = −25.43
Best model: POWER LAW
Best χ²/ν = 1.329 (ν=5)
Power law index = −1.16
No synchrotron component
% Polarisation
MgII [OII] Hβ Hα
f_λ (W m^−2 μm^−1)
λ (μm)
χ/ν
λ_peak (μm)
νF_ν (W/m²)
ν (Hz)
RADIO IRAS OPT X-RAY EGRET


PKS 1256−229, z=1.365
Other name: −−
Classification: stellar source, BL Lac Cand. (PG95)
Galactic E(B−V) = 0.132 mag; A_B = 0.571 mag
B = 18.43 B−K = 4.99 M_V = −27.55
No polarisation measurements
Best model: COMBINED
Best χ²/ν = 0.166 (ν=4)
Power law index = −1.70
λ_peak (synch.) = 0.31 μm
0.5 μm ratio = 714.64
0.5 μm fraction = 99.9%
CIV CIII] MgII [OII] Hβ Hα
f_λ (W m^−2 μm^−1)
λ (μm)
χ/ν
λ_peak (μm)
νF_ν (W/m²)
ν (Hz)
RADIO IRAS OPT X-RAY EGRET

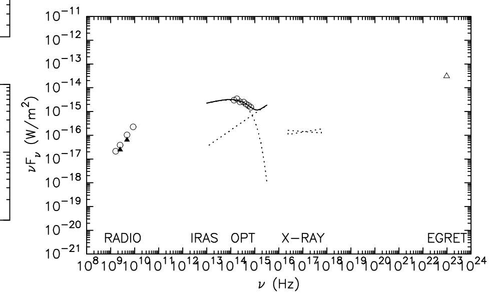
PKS 1313−333, z=1.21



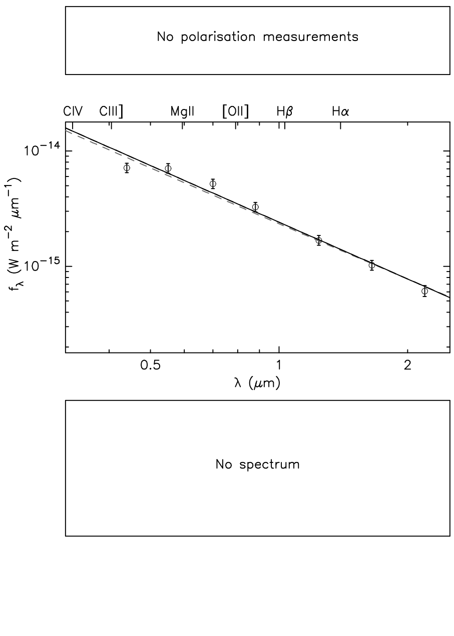
Other name: OP −322
Classification: stellar source
Galactic E(B−V) = 0.062 mag; A_B = 0.266 mag
B = 18.17   B−K = 4.48 M_V = −26.81



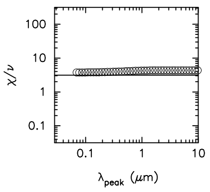
Best model: COMBINED
Best χ^2/ν = 0.801 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.33 μm
0.5 μm ratio = 6.94
0.5 μm fraction = 87.4%



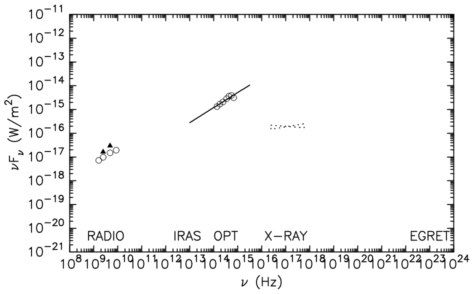
PKS 1404−342, z=1.122



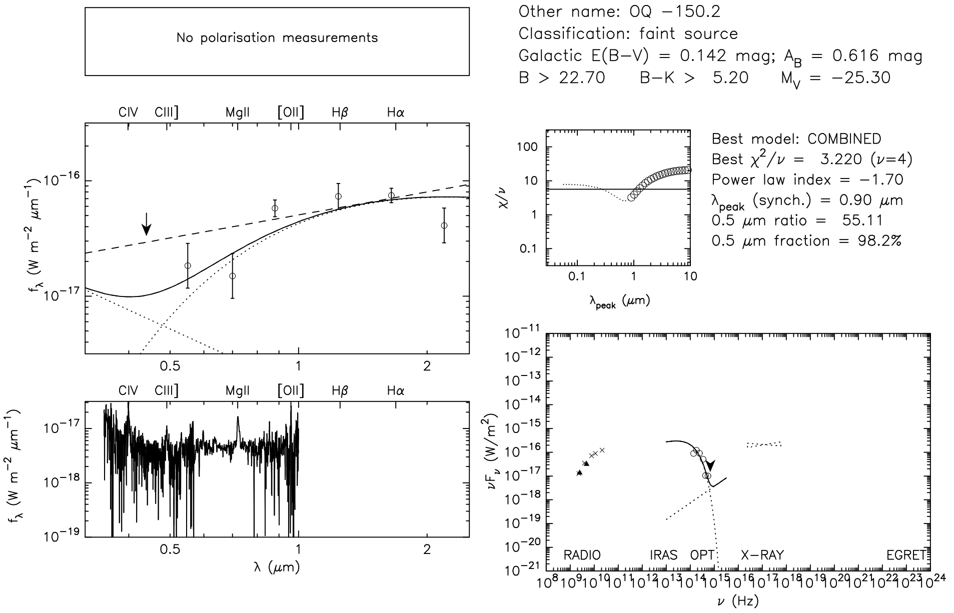
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.066 mag; A_B = 0.287 mag
B = 17.37   B−K = 2.80 M_V = −26.73



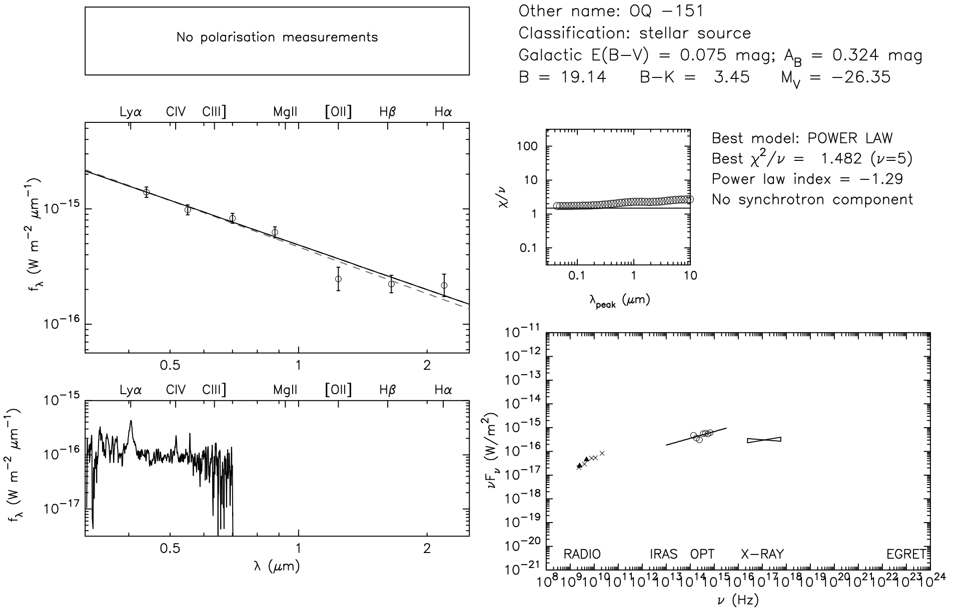
Best model: POWER LAW
Best χ^2/ν = 3.132 (ν=5)
Power law index = −1.63
No synchrotron component



PKS 1430−155, z=1.573



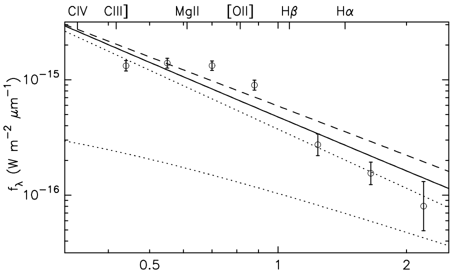
PKS 1430−178, z=2.326

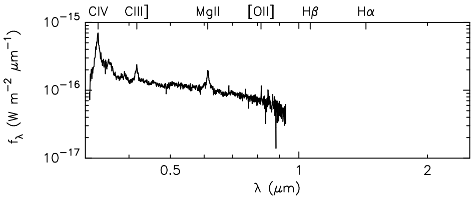


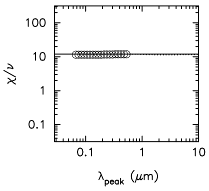
PKS 1435−218, z=1.187

No polarisation measurements

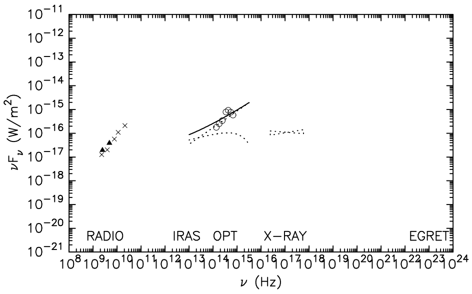
Other name: OQ −259
Classification: stellar source
Galactic E(B−V) = 0.085 mag; A_B = 0.366 mag
B = 19.20 B−K = 2.43 M_V = −25.63







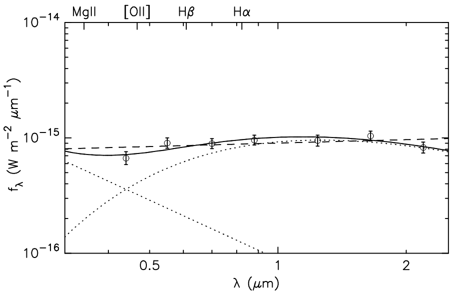
Best model: COMBINED
Best χ^2/ν = 11.467 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.07 μm
0.5 μm ratio = 0.29
0.5 μm fraction = 22.7%

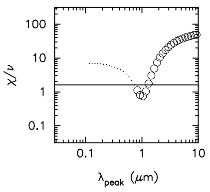


PKS 1437−153, z=0.254

No polarisation measurements

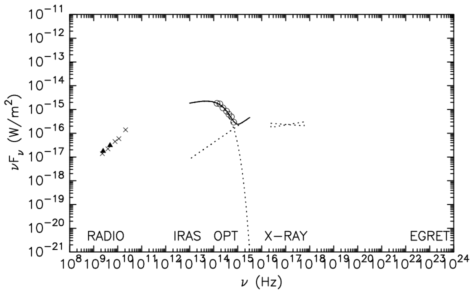
Other name: OQ −162
Classification: stellar source, BL Lac (VV97)
Galactic E(B−V) = 0.127 mag; A_B = 0.550 mag
B = 19.94 B−K = 5.70 M_V = −21.49



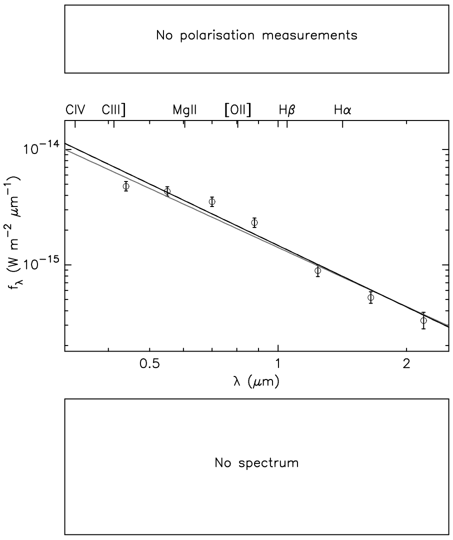


Best model: COMBINED
Best χ^2/ν = 0.747 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.04 μm
0.5 μm ratio = 3.34
0.5 μm fraction = 77.0%

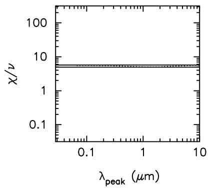
No spectrum



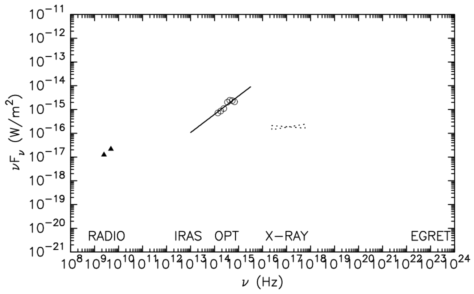
PKS 1438−347, z=1.159



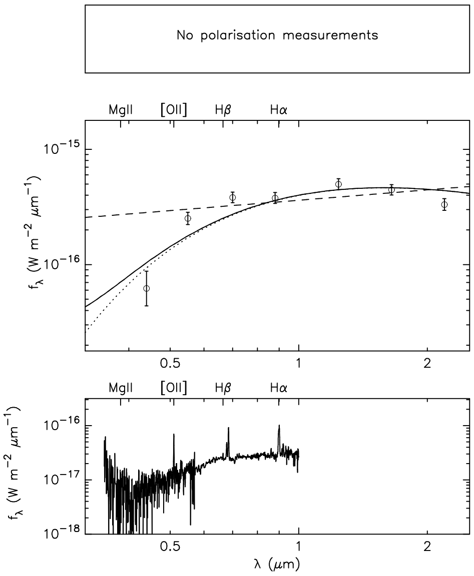
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.097 mag; A_B = 0.419 mag
B = 17.80 B−K = 2.56 M_V = −26.37



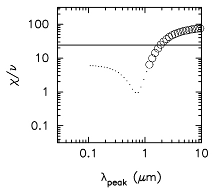
Best model: POWER LAW
Best χ^2/ν = 4.946 (ν=5)
Power law index = −1.77
No synchrotron component



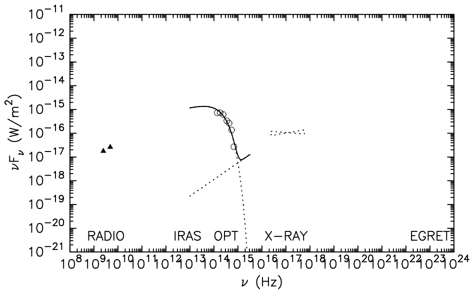
PKS 1450−338, z=0.368



Other name: −−
Classification: faint source
Galactic E(B−V) = 0.095 mag; A_B = 0.412 mag
B = 22.52 B−K = 7.29 M_V = −21.39

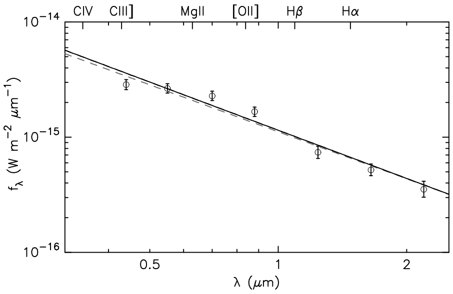


Best model: COMBINED
Best χ^2/ν = 6.441 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.20 μm
0.5 μm ratio = 55.57
0.5 μm fraction = 98.2%



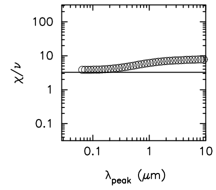
PKS 1454−060, z=1.249

No polarisation measurements

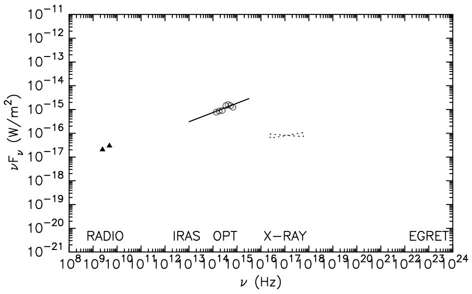


No spectrum

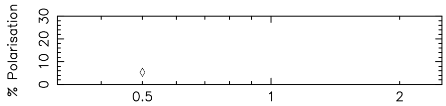
Other name: 4C −05.62
Classification: stellar source
Galactic E(B−V) = 0.080 mag; A_B = 0.345 mag
B = 18.36   B−K = 3.20 M_V = −26.25

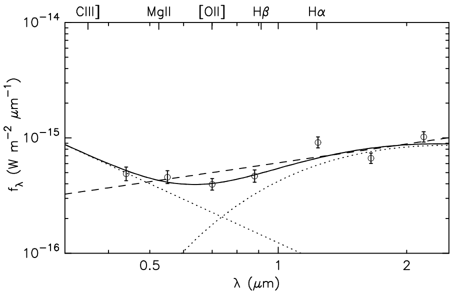


Best model: POWER LAW
Best χ^2/ν = 3.260 (ν=5)
Power law index = −1.39
No synchrotron component



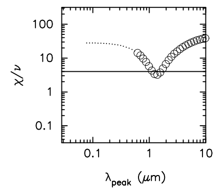
PKS 1504−166, z=0.876



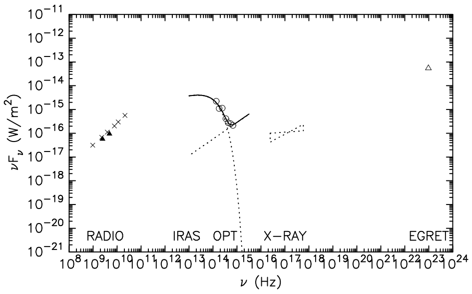


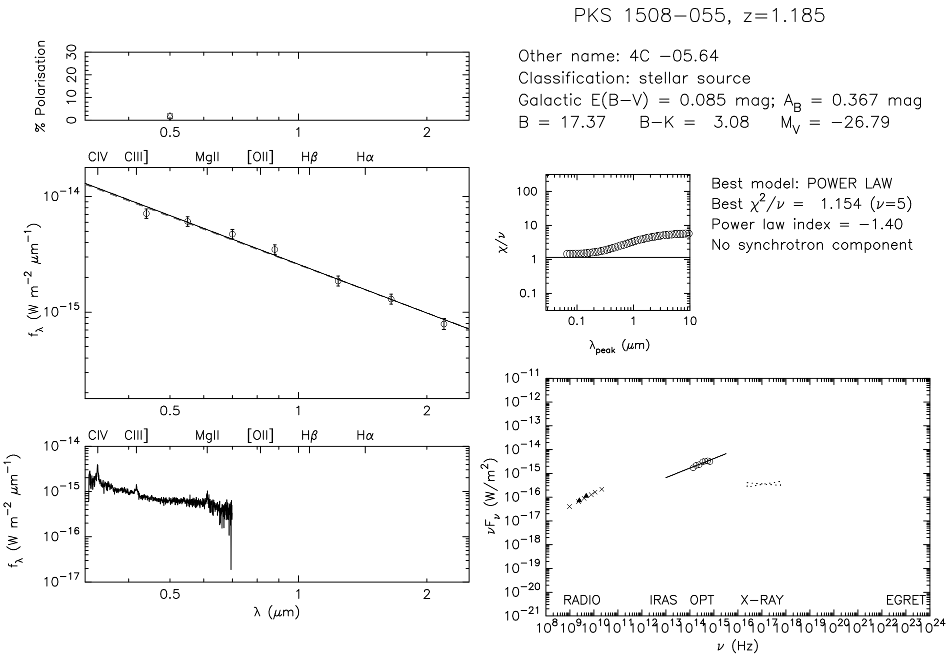
No spectrum

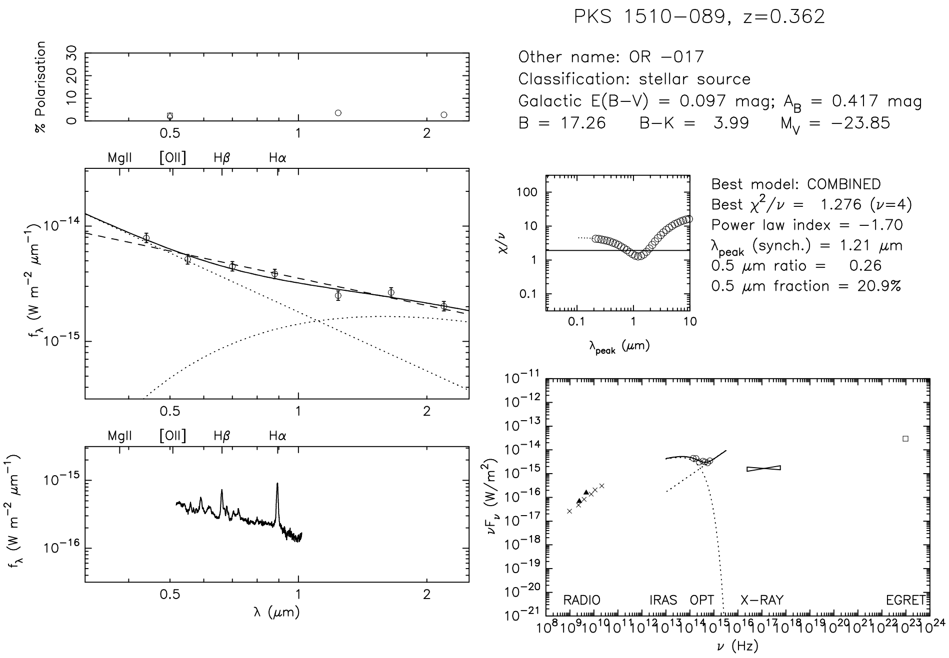
Other name: OR −102/−107
Classification: merger
Galactic E(B−V) = 0.095 mag; A_B = 0.411 mag
B = 20.28   B−K = 6.27 M_V = −23.89



Best model: COMBINED
Best χ^2/ν = 3.219 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.39 μm
0.5 μm ratio = 2.71
0.5 μm fraction = 73.1%



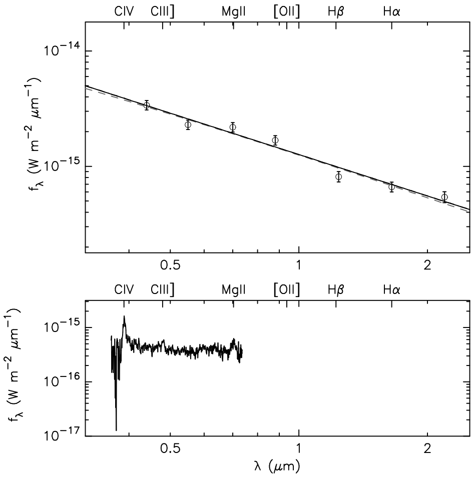

PKS 1508−055, z=1.185
Other name: 4C −05.64
Classification: stellar source
Galactic E(B−V) = 0.085 mag; A_B = 0.367 mag
B = 17.37 B−K = 3.08 M_V = −26.79
Best model: POWER LAW
Best χ^2/ν = 1.154 (ν=5)
Power law index = −1.40
No synchrotron component
% Polarisation
CIV CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X−RAY EGRET
ν (Hz)

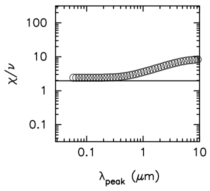

PKS 1510−089, z=0.362
Other name: OR −017
Classification: stellar source
Galactic E(B−V) = 0.097 mag; A_B = 0.417 mag
B = 17.26 B−K = 3.99 M_V = −23.85
Best model: COMBINED
Best χ^2/ν = 1.276 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.21 μm
0.5 μm ratio = 0.26
0.5 μm fraction = 20.9%
% Polarisation
MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X−RAY EGRET
ν (Hz)

PKS 1511−100, z=1.513

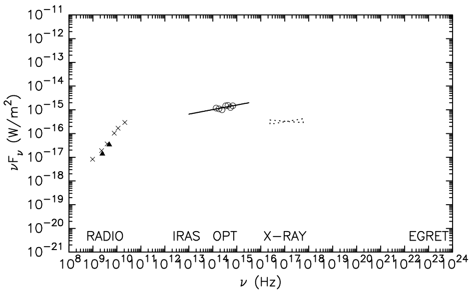
No polarisation measurements

Other name: OR −118
Classification: stellar source
Galactic E(B−V) = 0.106 mag; A_B = 0.457 mag
B = 18.18 B−K = 3.48 M_V = −26.43





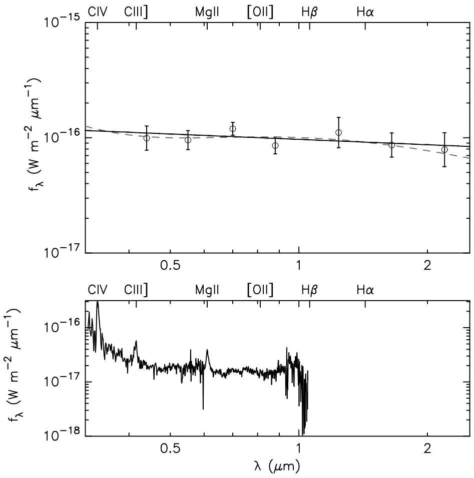
Best model: POWER LAW
Best χ^2/ν = 1.957 (ν=5)
Power law index = −1.19
No synchrotron component

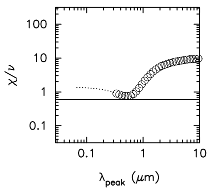


PKS 1511−210, z=1.179

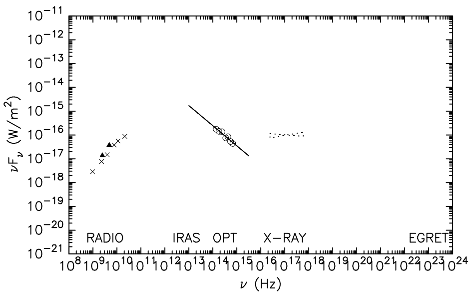
No polarisation measurements

Other name: OR −218
Classification: stellar source
Galactic E(B−V) = 0.159 mag; A_B = 0.686 mag
B = 22.01 B−K = 5.22 M_V = −23.05

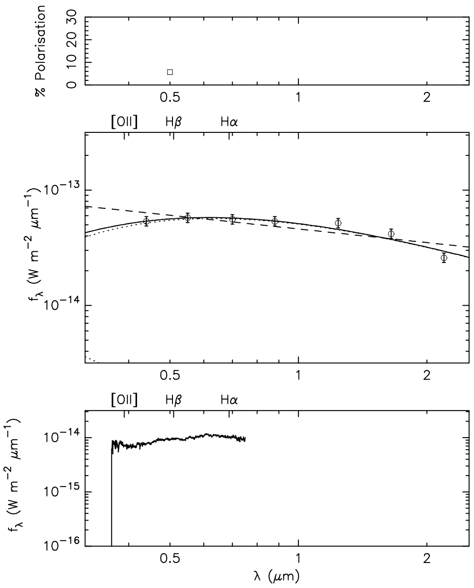




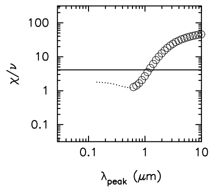
Best model: POWER LAW
Best χ^2/ν = 0.600 (ν=5)
Power law index = −0.15
No synchrotron component



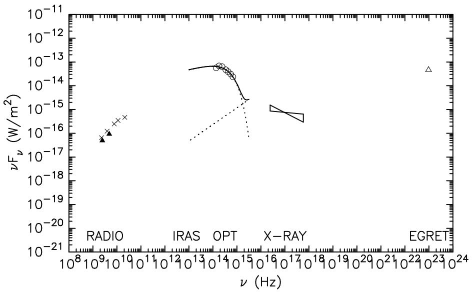
PKS 1514−241, z=0.0486



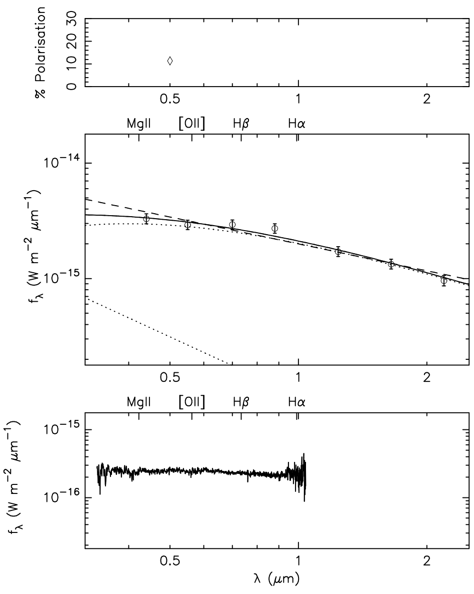
Other name: AP Librae
Classification: galaxy, BL Lac (PG95)
Galactic E(B−V) = 0.138 mag; A_B = 0.597 mag
B = 15.18 B−K = 4.68 M_V = −22.02



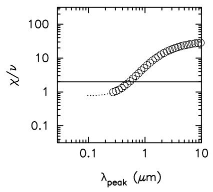
Best model: COMBINED
Best χ^2/ν = 1.275 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.62 μm
0.5 μm ratio = 36.35
0.5 μm fraction = 97.3%



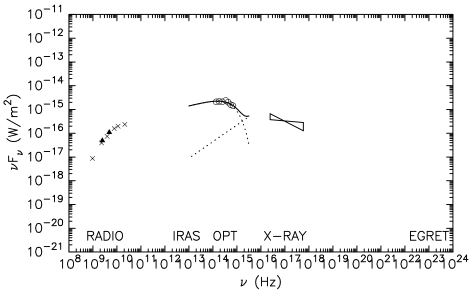
PKS 1519−273, z=0.51



Other name: --
Classification: stellar source, BL Lac (PG95)
Galactic E(B−V) = 0.238 mag; A_B = 1.029 mag
B = 18.21 B−K = 4.13 M_V = −24.36



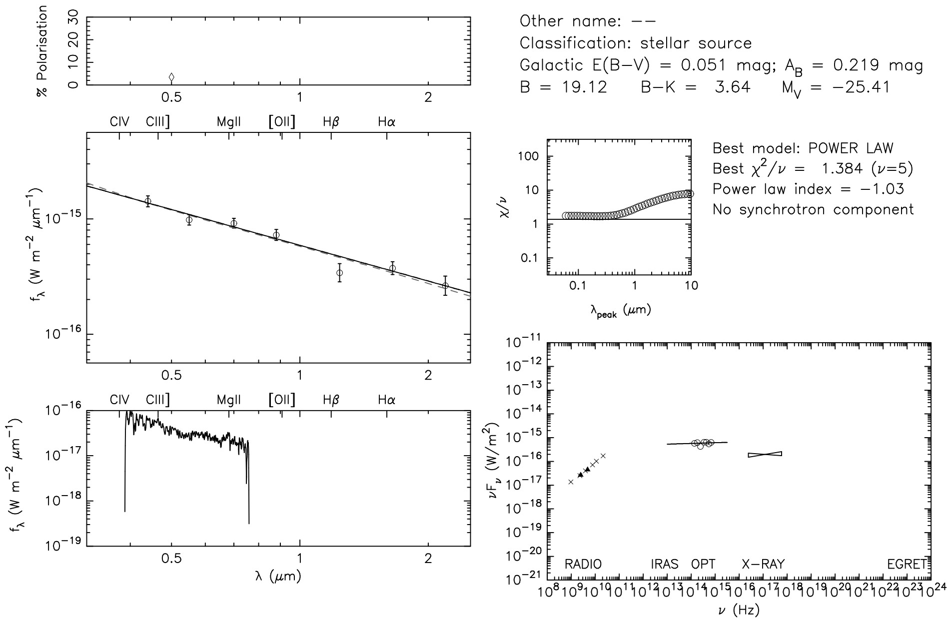
Best model: COMBINED
Best χ^2/ν = 0.979 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.27 μm
0.5 μm ratio = 15.67
0.5 μm fraction = 94.0%



PKS 1532+016, z=1.435

Other name: --
Classification: stellar source
Galactic E(B−V) = 0.051 mag; A_B = 0.219 mag
B = 19.12   B−K = 3.64 M_V = −25.41

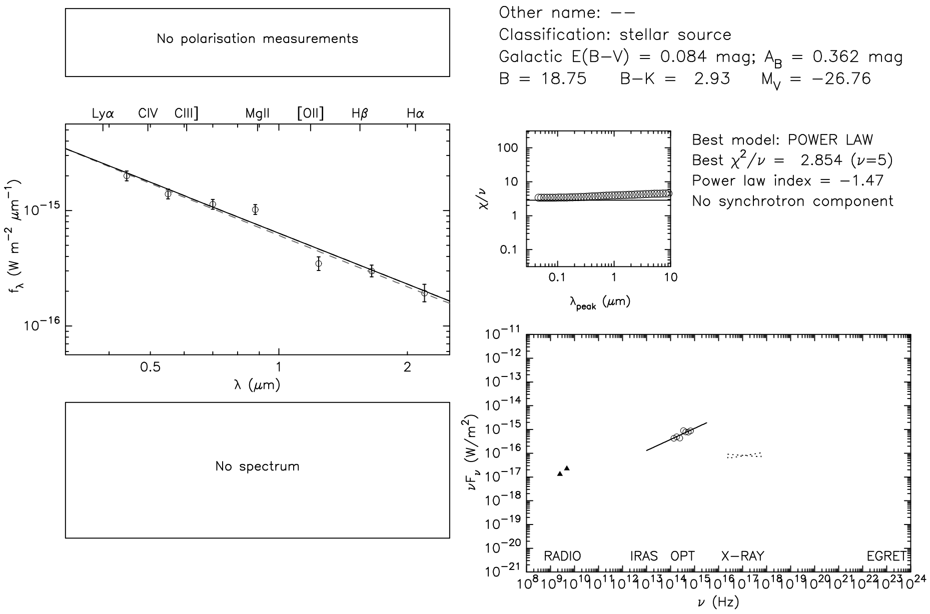
Best model: POWER LAW
Best χ^2/ν = 1.384 (ν=5)
Power law index = −1.03
No synchrotron component

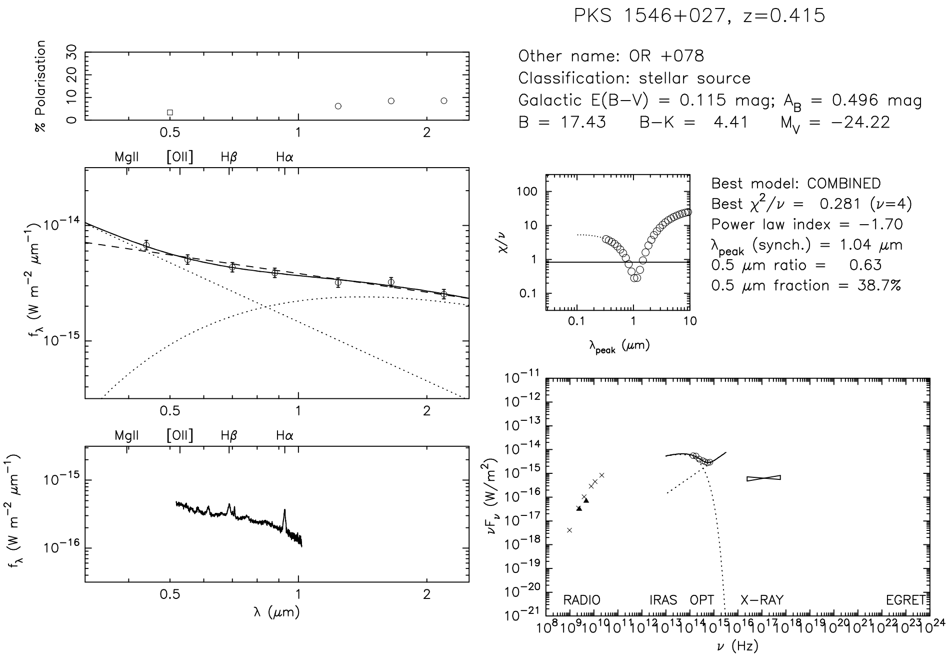


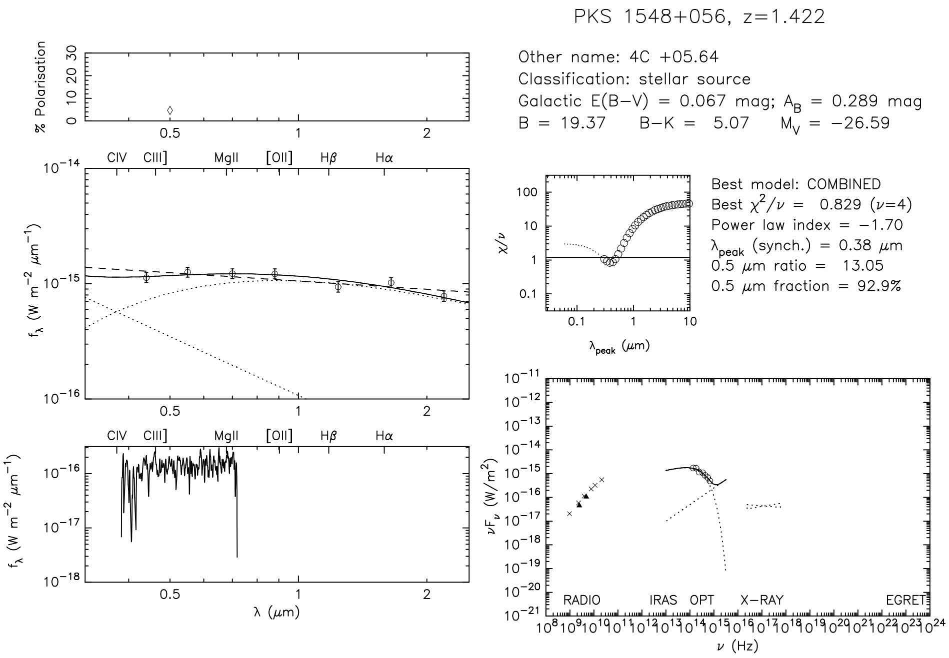
PKS 1542+042, z=2.184

Other name: --
Classification: stellar source
Galactic E(B−V) = 0.084 mag; A_B = 0.362 mag
B = 18.75   B−K = 2.93 M_V = −26.76

Best model: POWER LAW
Best χ^2/ν = 2.854 (ν=5)
Power law index = −1.47
No synchrotron component

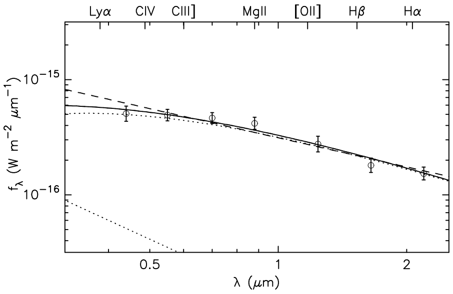



PKS 1546+027, z=0.415
Other name: OR +078
Classification: stellar source
Galactic E(B−V) = 0.115 mag; A_B = 0.496 mag
B = 17.43 B−K = 4.41 M_V = −24.22
Best model: COMBINED
Best χ²/ν = 0.281 (ν=4)
Power law index = −1.70
λ_peak (synch.) = 1.04 μm
0.5 μm ratio = 0.63
0.5 μm fraction = 38.7%
% Polarisation
MgII [OII] Hβ Hα
λ (μm)
λ_peak (μm)
ν (Hz)
RADIO IRAS OPT X−RAY EGRET


PKS 1548+056, z=1.422
Other name: 4C +05.64
Classification: stellar source
Galactic E(B−V) = 0.067 mag; A_B = 0.289 mag
B = 19.37 B−K = 5.07 M_V = −26.59
Best model: COMBINED
Best χ²/ν = 0.829 (ν=4)
Power law index = −1.70
λ_peak (synch.) = 0.38 μm
0.5 μm ratio = 13.05
0.5 μm fraction = 92.9%
% Polarisation
CIV CIII] MgII [OII] Hβ Hα
λ (μm)
λ_peak (μm)
ν (Hz)
RADIO IRAS OPT X−RAY EGRET

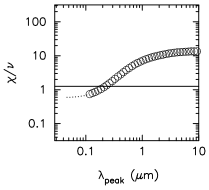
PKS 1550−269, z=2.145

No polarisation measurements

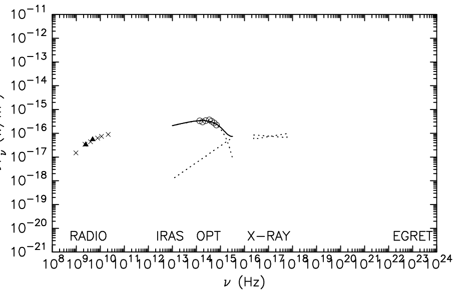


No spectrum

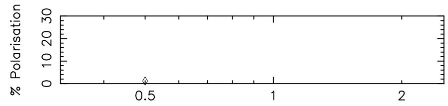
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.155 mag; A_B = 0.669 mag
B = 20.24 B−K = 4.17 M_V = −26.42

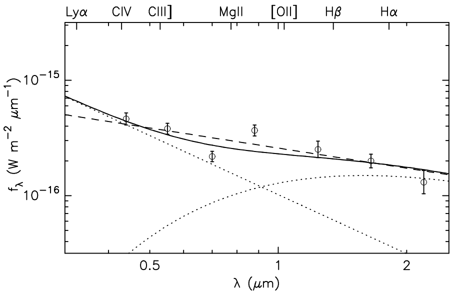


Best model: COMBINED
Best χ^2/ν = 0.739 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.12 μm
0.5 μm ratio = 36.07
0.5 μm fraction = 97.3%



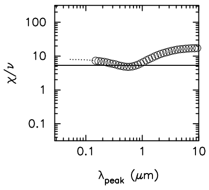
PKS 1555+001, z=1.77



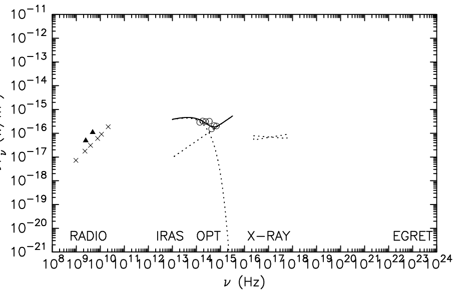


No spectrum

Other name: −−
Classification: faint source
Galactic E(B−V) = 0.139 mag; A_B = 0.603 mag
B = 20.34 B−K = 4.10 M_V = −25.31



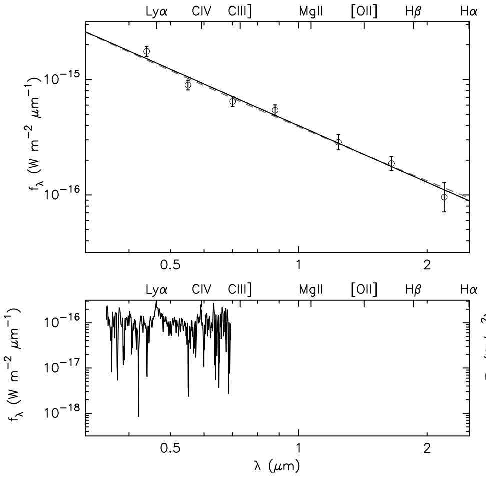
Best model: COMBINED
Best χ^2/ν = 4.818 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.59 μm
0.5 μm ratio = 2.52
0.5 μm fraction = 71.6%

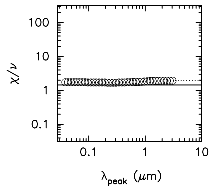


PKS 1556−245, z=2.818

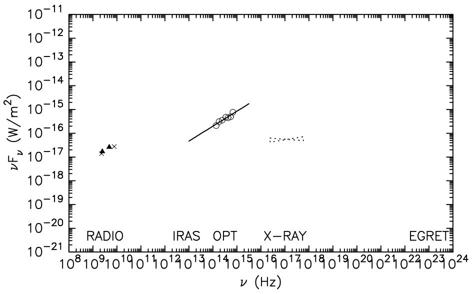
No polarisation measurements

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.100 mag; A_B = 0.431 mag
B = 18.89 B−K = 2.31 M_V = −25.85





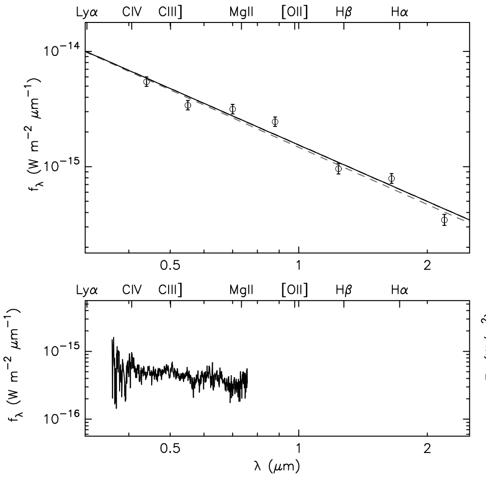
Best model: POWER LAW
Best χ^2/ν = 1.459 (ν=5)
Power law index = −1.63
No synchrotron component

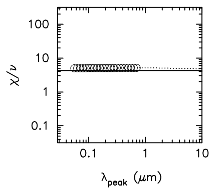


PKS 1602−001, z=1.624

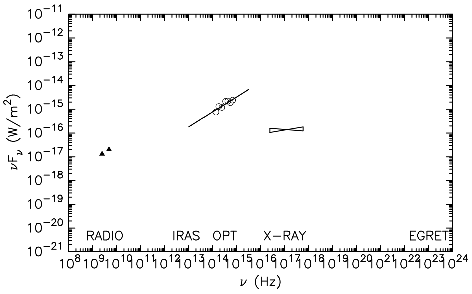
No polarisation measurements

Other name: 4C −00.63
Classification: stellar source
Galactic E(B−V) = 0.138 mag; A_B = 0.599 mag
B = 17.66 B−K = 2.47 M_V = −26.89





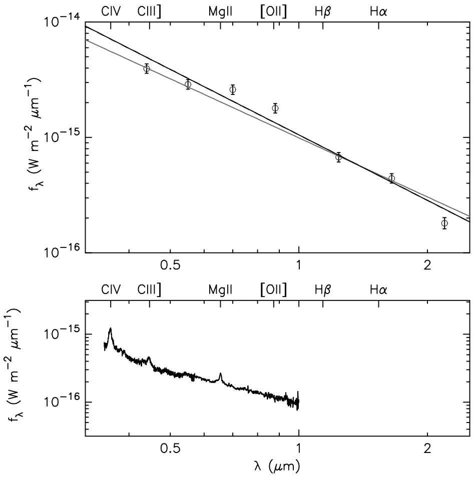
Best model: POWER LAW
Best χ^2/ν = 4.254 (ν=5)
Power law index = −1.63
No synchrotron component

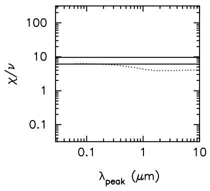


PKS 1615+029, z=1.341

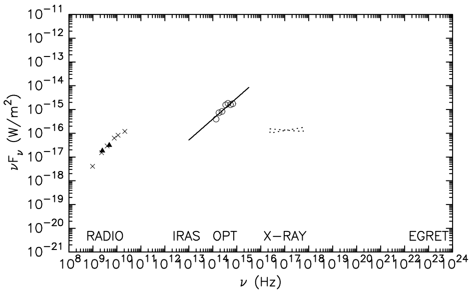
No polarisation measurements

Other name: OS +028
Classification: stellar source
Galactic E(B−V) = 0.067 mag; A_B = 0.292 mag
B = 18.01 B−K = 2.12 M_V = −26.25





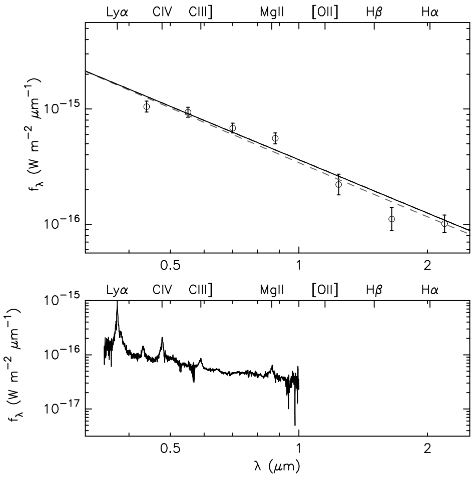
Best model: POWER LAW
Best χ^2/ν = 6.124 (ν=5)
Power law index = −1.89
No synchrotron component

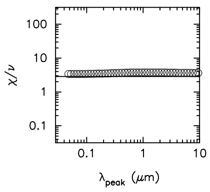


PKS 1616+063, z=2.088

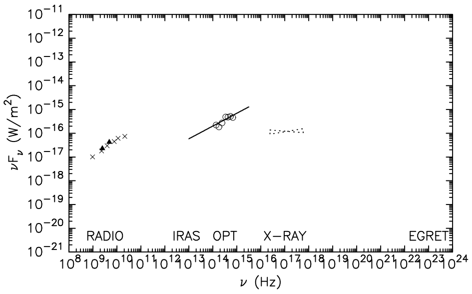
No polarisation measurements

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.059 mag; A_B = 0.255 mag
B = 19.45 B−K = 2.93 M_V = −26.20





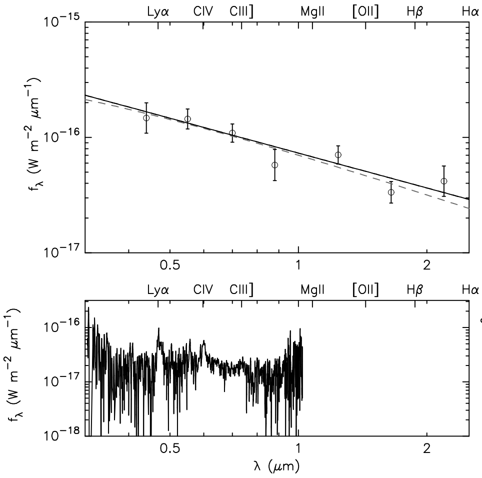
Best model: POWER LAW
Best χ^2/ν = 2.840 (ν=5)
Power law index = −1.54
No synchrotron component

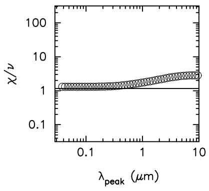


PKS 1635−035, z=2.856

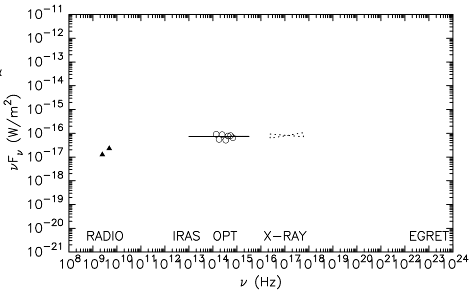
No polarisation measurements

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.353 mag; A_B = 1.527 mag
B = 21.58 B−K = 4.10 M_V = −24.48





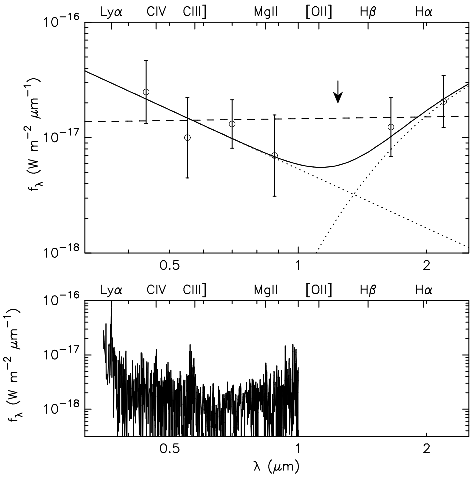
Best model: POWER LAW
Best χ^2/ν = 1.157 (ν=5)
Power law index = −1.00
No synchrotron component

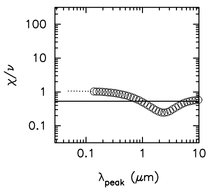


PKS 1654−020, z= 2

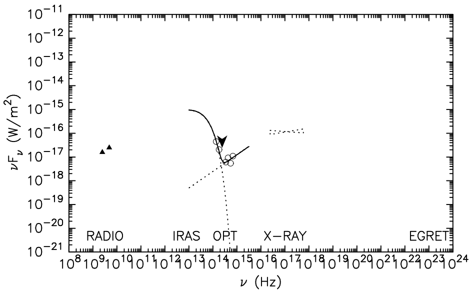
No polarisation measurements

Other name: 4C −01.39
Classification: faint source
Galactic E(B−V) = 0.223 mag; A_B = 0.963 mag
B = 23.51 B−K = 5.26 M_V = −20.56

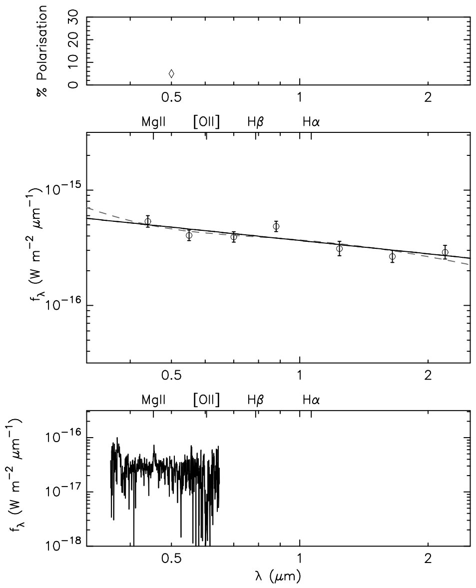




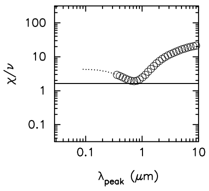
Best model: COMBINED
Best χ^2/ν = 0.244 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 2.45 μm
0.5 μm ratio = 1.98
0.5 μm fraction = 66.5%



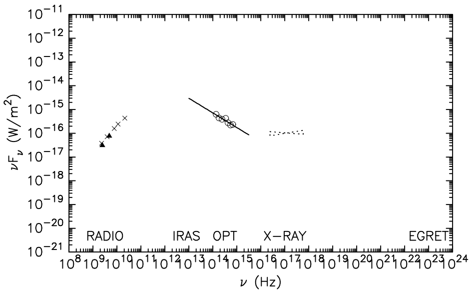
PKS 1655+077, z=0.621



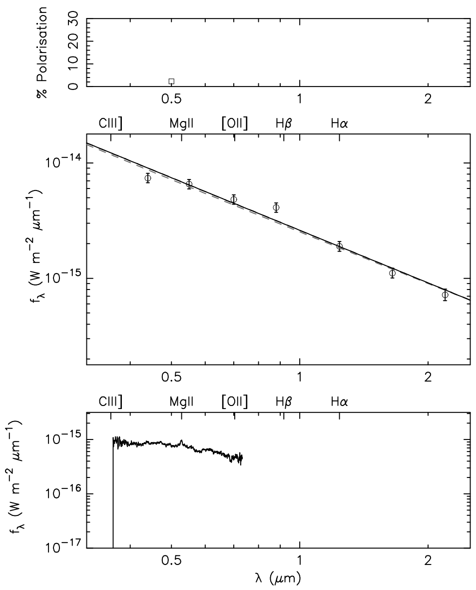
Other name: OS +092
Classification: stellar source
Galactic E(B−V) = 0.153 mag; A_B = 0.662 mag
B = 20.18 B−K = 4.80 M_V = −22.81



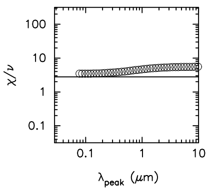
Best model: POWER LAW
Best χ^2/ν = 1.627 (ν=5)
Power law index = −0.38
No synchrotron component



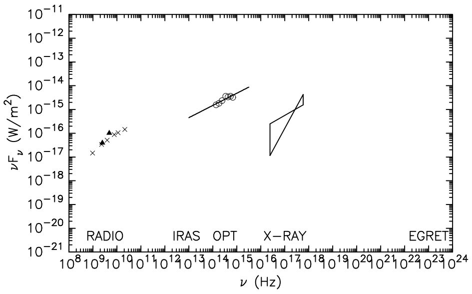
PKS 1656+053, z=0.8873



Other name: OS +094
Classification: stellar source
Galactic E(B−V) = 0.159 mag; A_B = 0.686 mag
B = 17.33 B−K = 2.94 M_V = −26.28



Best model: POWER LAW
Best χ^2/ν = 2.792 (ν=5)
Power law index = −1.51
No synchrotron component

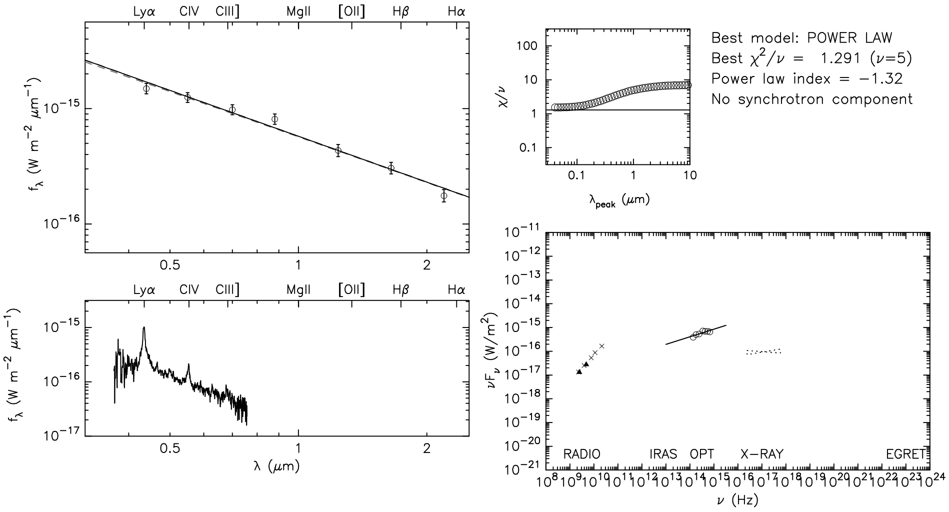


PKS 1705+018, z=2.576

No polarisation measurements

Other name: --
Classification: stellar source
Galactic E(B−V) = 0.177 mag; A_B = 0.767 mag
B = 19.07   B−K = 3.15 M_V = −27.14

Best model: POWER LAW
Best χ^2/ν = 1.291 (ν=5)
Power law index = −1.32
No synchrotron component

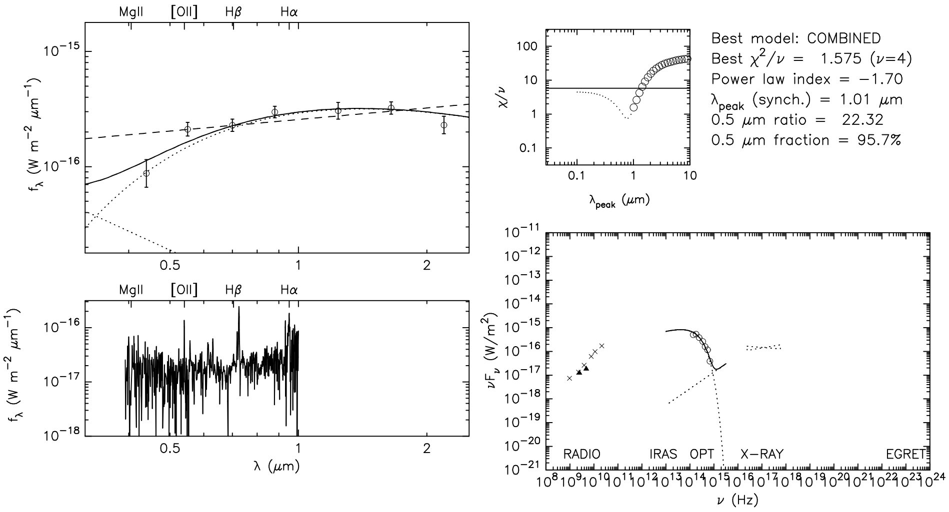


PKS 1706+006, z=0.449

No polarisation measurements

Other name: --
Classification: faint source
Galactic E(B−V) = 0.229 mag; A_B = 0.990 mag
B = 22.15   B−K = 6.52 M_V = −21.74

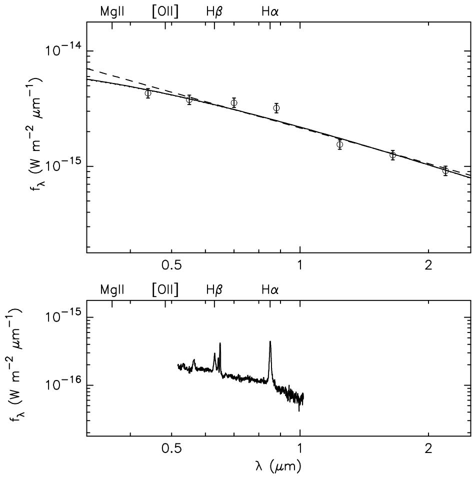
Best model: COMBINED
Best χ^2/ν = 1.575 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.01 μm
0.5 μm ratio = 22.32
0.5 μm fraction = 95.7%

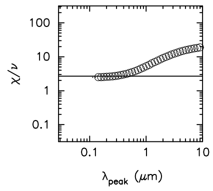


PKS 1725+044, z=0.296

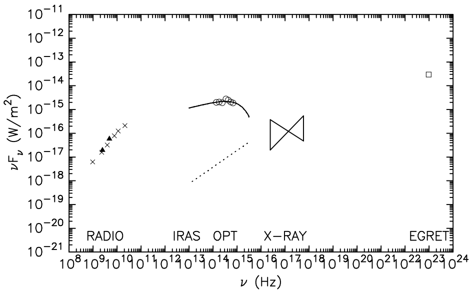
No polarisation measurements

Other name: --
Classification: merger
Galactic E(B−V) = 0.143 mag; A_B = 0.618 mag
B = 17.92 B−K = 3.79 M_V = −23.21





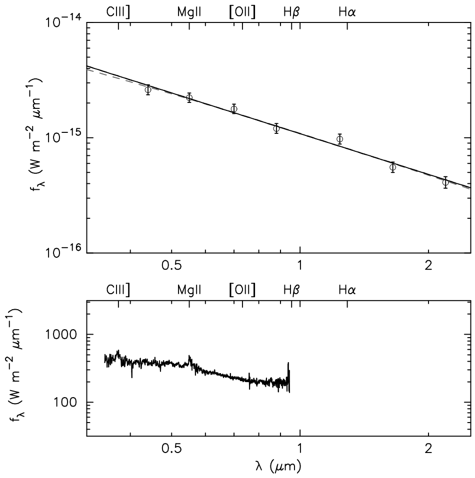
Best model: COMBINED
Best χ^2/ν = 2.494 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.14 μm
0.5 μm ratio = 194.25
0.5 μm fraction = 99.5%

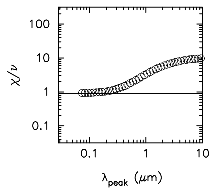


PKS 1933−400, z=0.965

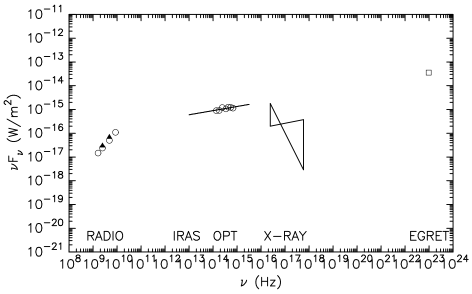
No polarisation measurements

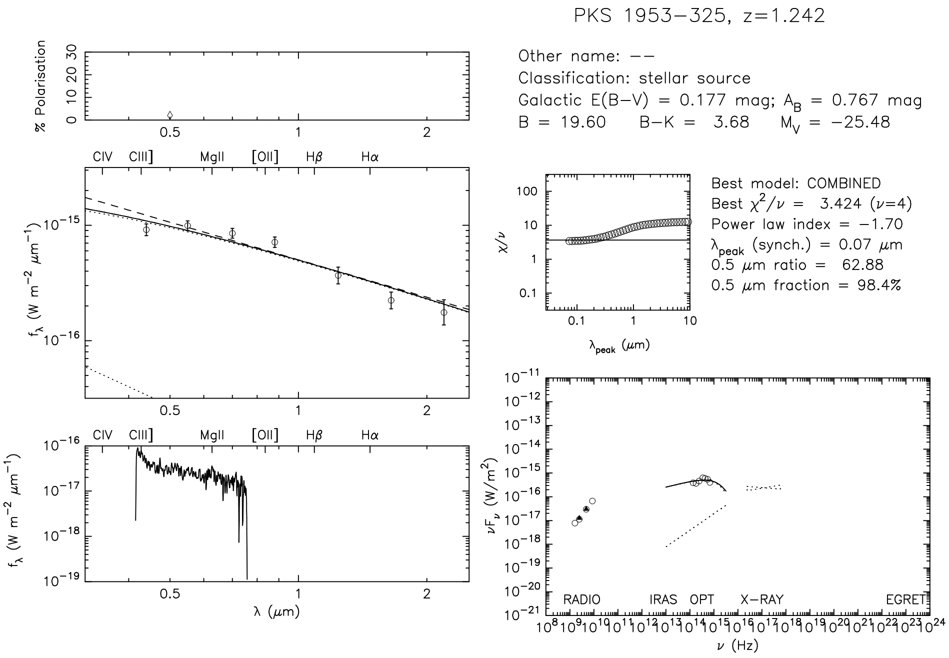
Other name: --
Classification: stellar source
Galactic E(B−V) = 0.148 mag; A_B = 0.641 mag
B = 18.46 B−K = 3.46 M_V = −25.17

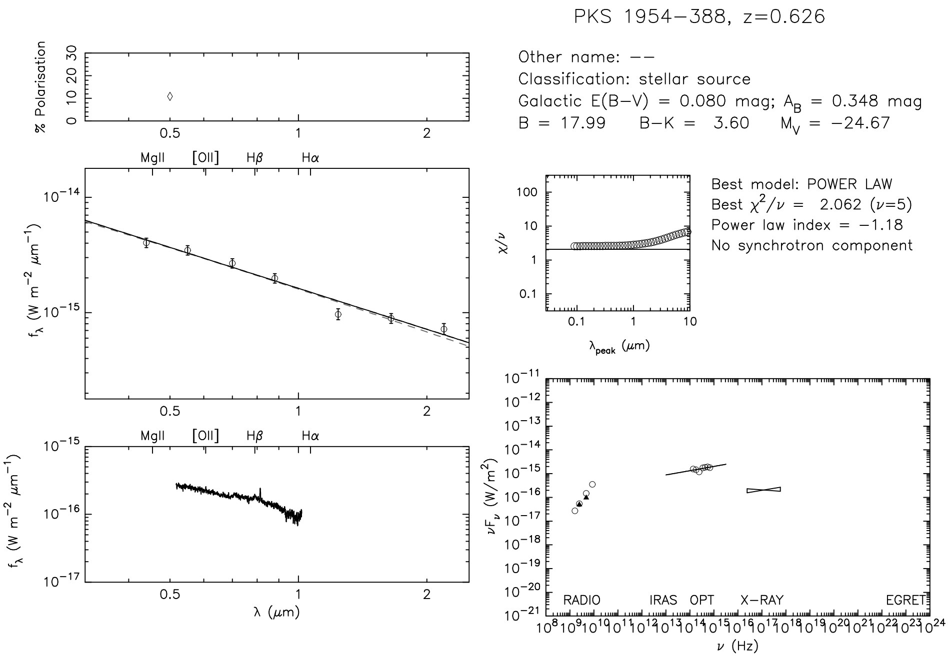




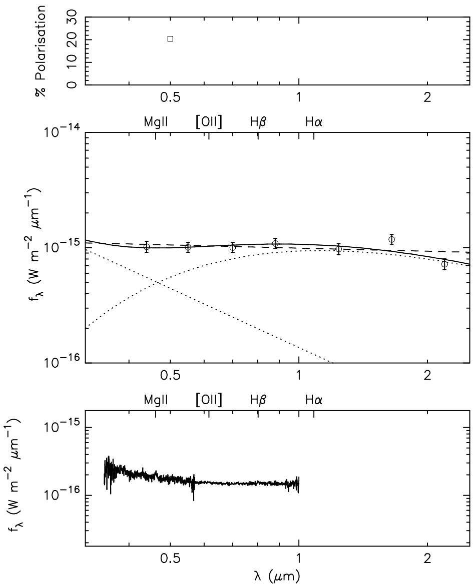
Best model: POWER LAW
Best χ^2/ν = 0.887 (ν=5)
Power law index = −1.17
No synchrotron component



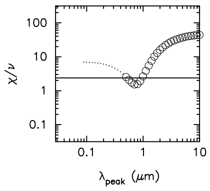

PKS 1953−325, z=1.242
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.177 mag; A_B = 0.767 mag
B = 19.60 B−K = 3.68 M_V = −25.48
Best model: COMBINED
Best χ^2/ν = 3.424 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.07 μm
0.5 μm ratio = 62.88
0.5 μm fraction = 98.4%
% Polarisation
CIV CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X-RAY EGRET
ν (Hz)


PKS 1954−388, z=0.626
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.080 mag; A_B = 0.348 mag
B = 17.99 B−K = 3.60 M_V = −24.67
Best model: POWER LAW
Best χ^2/ν = 2.062 (ν=5)
Power law index = −1.18
No synchrotron component
% Polarisation
MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X-RAY EGRET
ν (Hz)

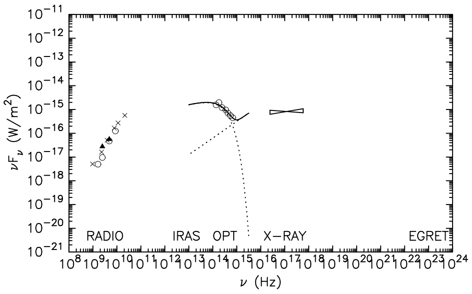
PKS 1958−179, z=0.652



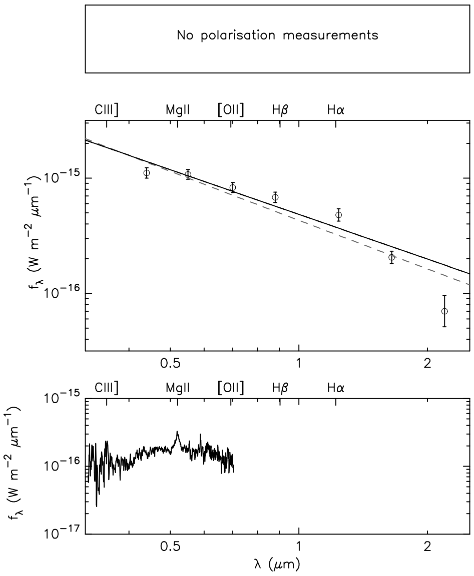
Other name: OV −198
Classification: stellar source
Galactic E(B−V) = 0.133 mag; A_B = 0.574 mag
B = 19.48 B−K = 5.09 M_V = −24.04



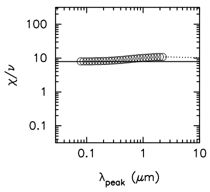
Best model: COMBINED
Best χ^2/ν = 1.528 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.71 μm
0.5 μm ratio = 4.69
0.5 μm fraction = 82.4%



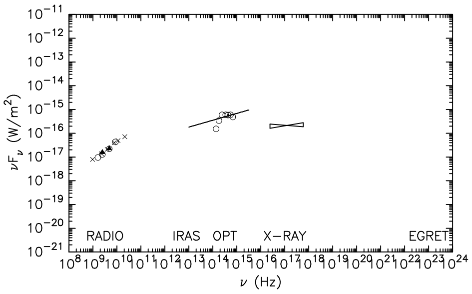
PKS 2002−185, z=0.859



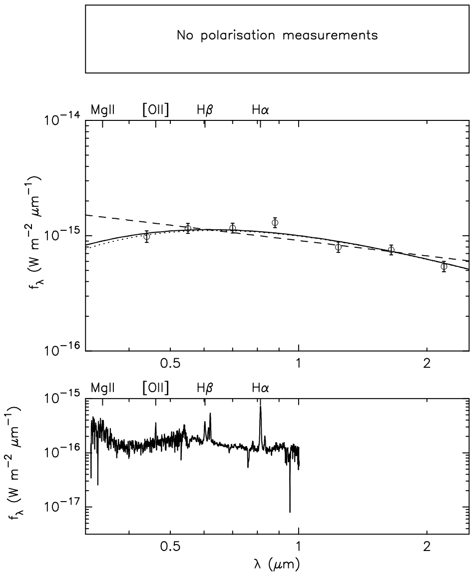
Other name: OW −105
Classification: stellar source
Galactic E(B−V) = 0.146 mag; A_B = 0.632 mag
B = 19.39 B−K = 2.47 M_V = −24.34



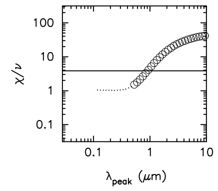
Best model: POWER LAW
Best χ^2/ν = 7.941 (ν=5)
Power law index = −1.29
No synchrotron component



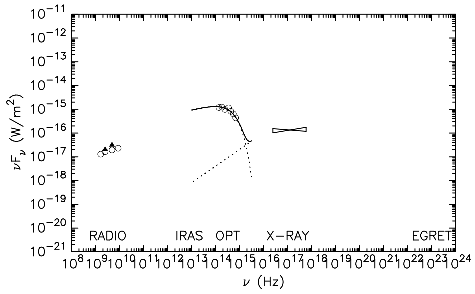
PKS 2004−447, z=0.24



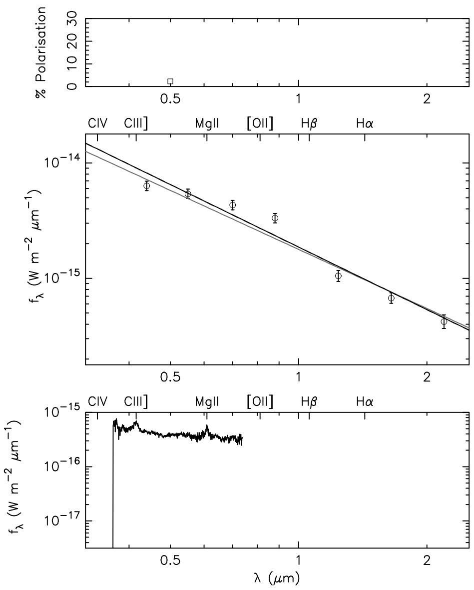
Other name: --
Classification: stellar source
Galactic E(B−V) = 0.034 mag; A_B = 0.146 mag
B = 19.52 B−K = 4.82 M_V = −21.60



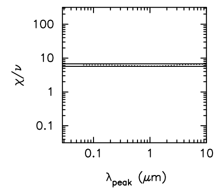
Best model: COMBINED
Best χ^2/ν = 1.515 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.53 μm
0.5 μm ratio = 55.79
0.5 μm fraction = 98.2%



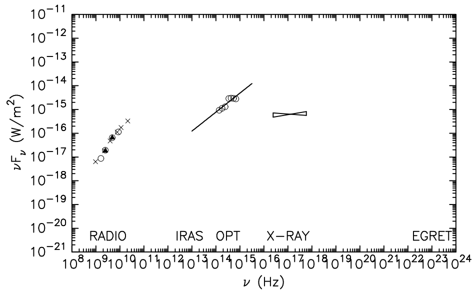
PKS 2008−159, z=1.178



Other name: OW −115
Classification: stellar source
Galactic E(B−V) = 0.142 mag; A_B = 0.614 mag
B = 17.50 B−K = 2.53 M_V = −26.74



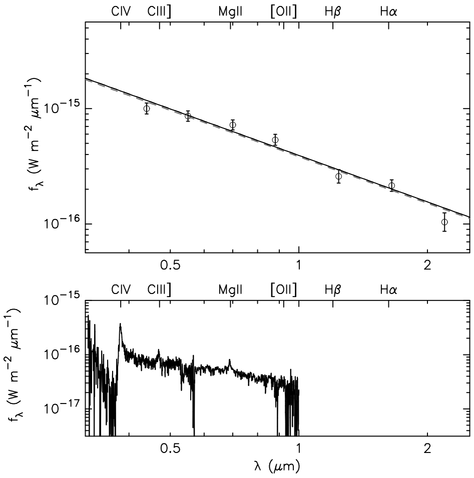
Best model: POWER LAW
Best χ^2/ν = 5.668 (ν=5)
Power law index = −1.80
No synchrotron component

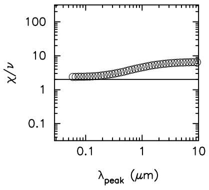


PKS 2021−330, z=1.471

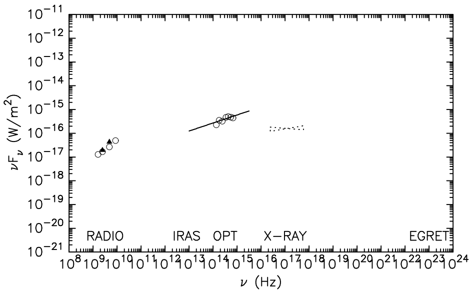
No polarisation measurements

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.075 mag; A_B = 0.325 mag
B = 19.50   B−K = 3.01 M_V = −25.34





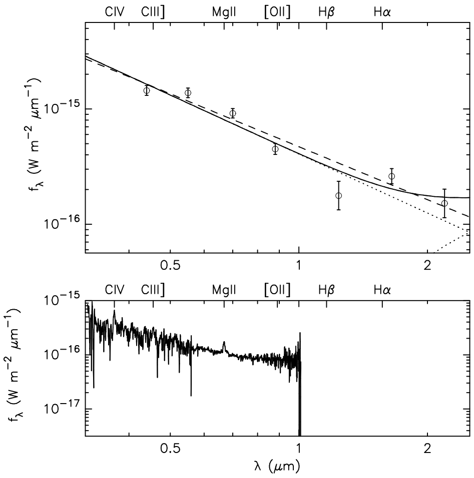
Best model: POWER LAW
Best χ^2/ν = 2.006 (ν=5)
Power law index = −1.34
No synchrotron component

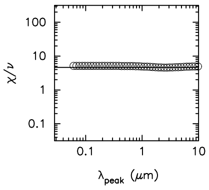


PKS 2022−077, z=1.388

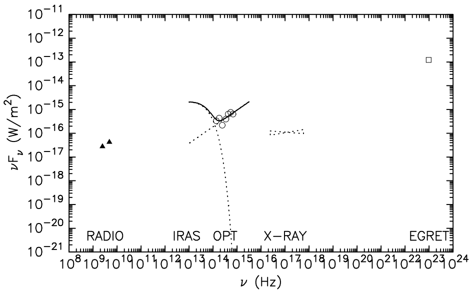
No polarisation measurements

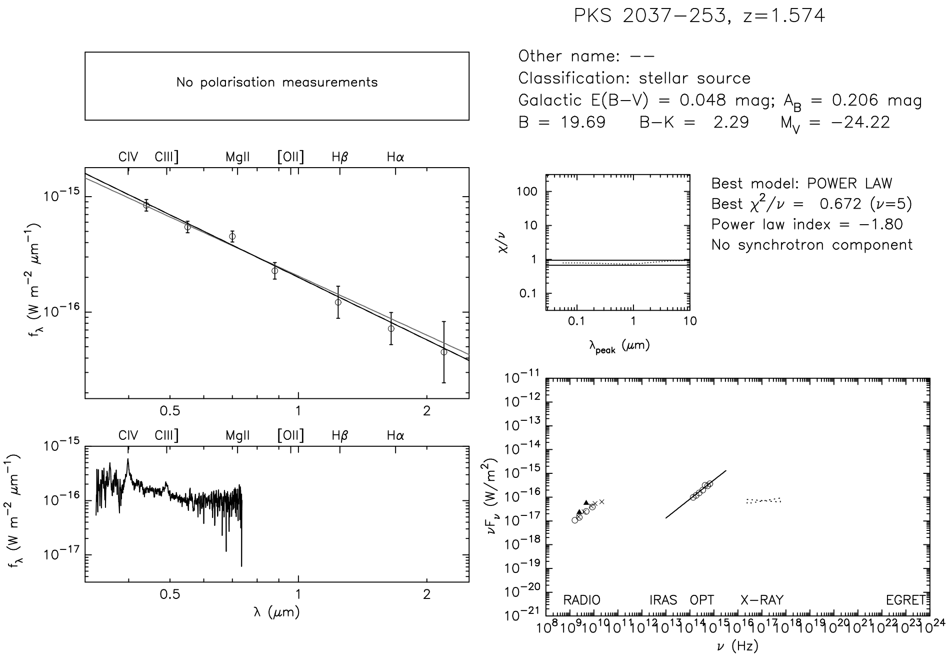
Other name: NRAO 0629
Classification: stellar source
Galactic E(B−V) = 0.039 mag; A_B = 0.168 mag
B = 19.10   B−K = 3.02 M_V = −24.98

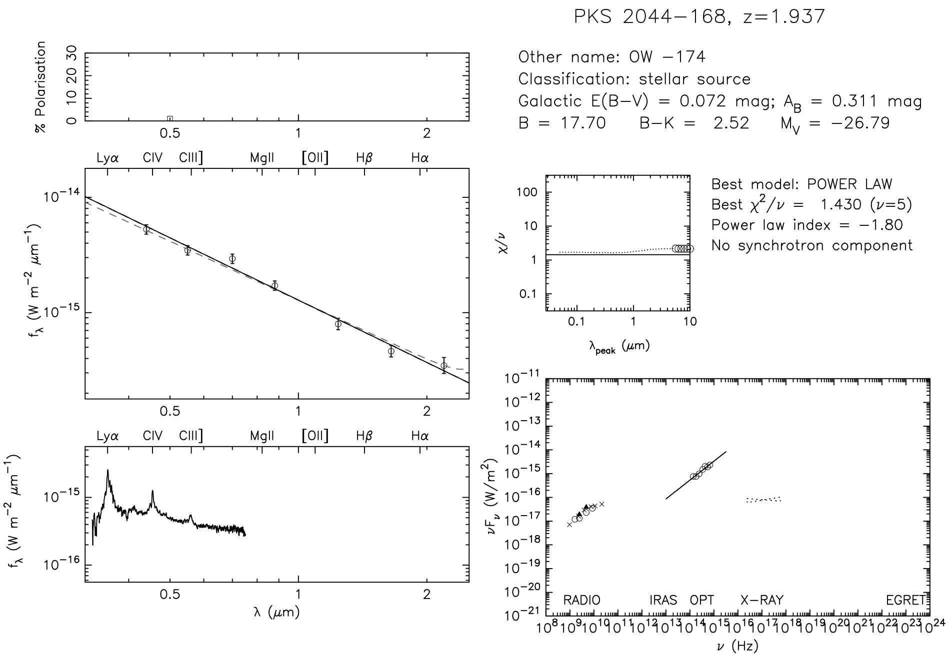




Best model: COMBINED
Best χ^2/ν = 4.585 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 2.74 μm
0.5 μm ratio = 0.02
0.5 μm fraction = 2.4%



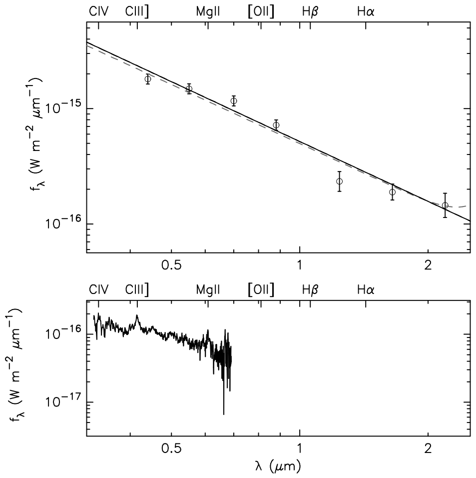

PKS 2037−253, z=1.574
No polarisation measurements
Other name: --
Classification: stellar source
Galactic E(B−V) = 0.048 mag; A_B = 0.206 mag
B = 19.69 B−K = 2.29 M_V = −24.22
Best model: POWER LAW
Best χ^2/ν = 0.672 (ν=5)
Power law index = −1.80
No synchrotron component
CIV CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
ν (Hz)
RADIO IRAS OPT X−RAY EGRET

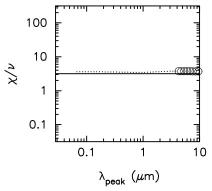

PKS 2044−168, z=1.937
% Polarisation
Other name: OW −174
Classification: stellar source
Galactic E(B−V) = 0.072 mag; A_B = 0.311 mag
B = 17.70 B−K = 2.52 M_V = −26.79
Best model: POWER LAW
Best χ^2/ν = 1.430 (ν=5)
Power law index = −1.80
No synchrotron component
Lyα CIV CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
ν (Hz)
RADIO IRAS OPT X−RAY EGRET

PKS 2053−044, z=1.177

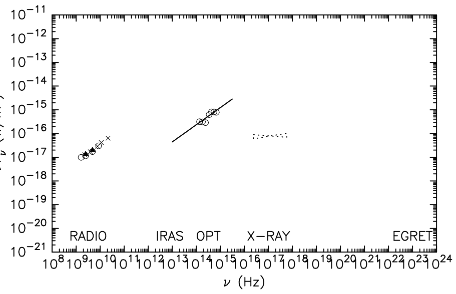
Other name: 4C −04.80
Classification: stellar source
Galactic E(B−V) = 0.076 mag; A_B = 0.329 mag
B = 18.86 B−K = 2.73 M_V = −25.03

No polarisation measurements





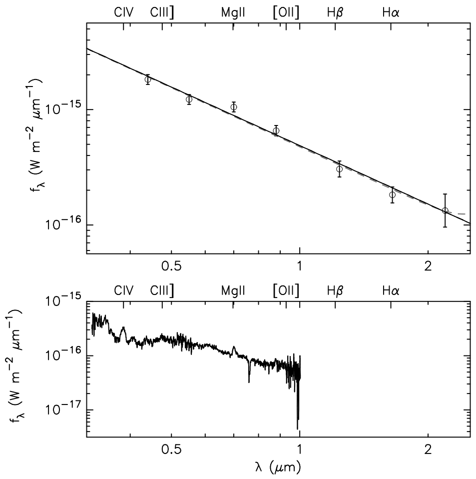
Best model: POWER LAW
Best χ^2/ν = 3.158 (ν=5)
Power law index = −1.72
No synchrotron component

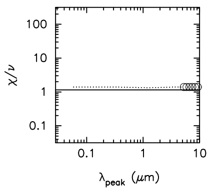


PKS 2058−297, z=1.492

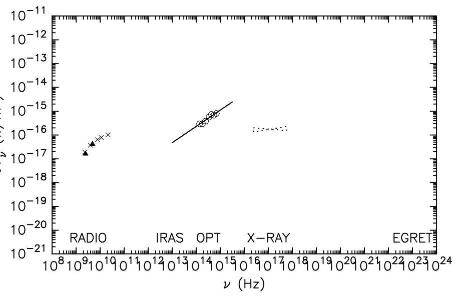
Other name: IC 1347
Classification: stellar source
Galactic E(B−V) = 0.101 mag; A_B = 0.437 mag
B = 18.85 B−K = 2.63 M_V = −25.26

No polarisation measurements



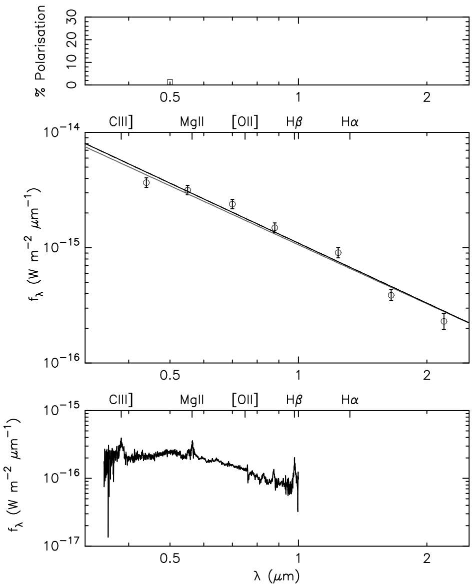


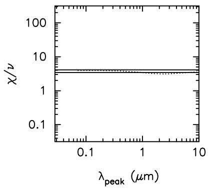
Best model: POWER LAW
Best χ^2/ν = 1.152 (ν=5)
Power law index = −1.68
No synchrotron component



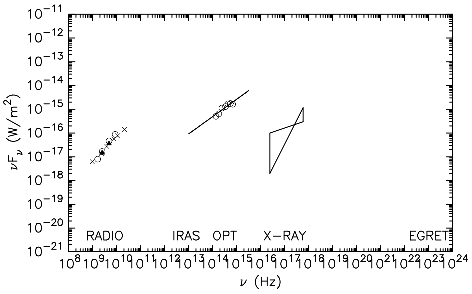
PKS 2059+034, z=1.012

Other name: OW +098
Classification: stellar source
Galactic E(B−V) = 0.104 mag; A_B = 0.448 mag
B = 18.09 B−K = 2.46 M_V = −25.52



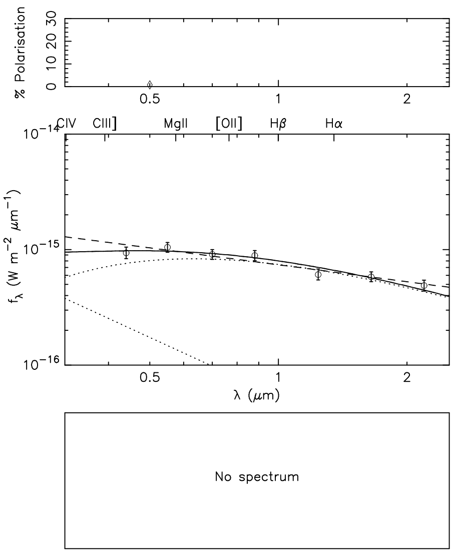


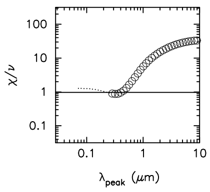
Best model: POWER LAW
Best χ^2/ν = 3.427 (ν=5)
Power law index = −1.73
No synchrotron component



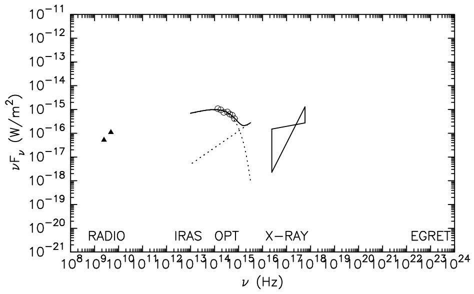
PKS 2106−413, z=1.055

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.036 mag; A_B = 0.155 mag
B = 19.57 B−K = 4.76 M_V = −25.29





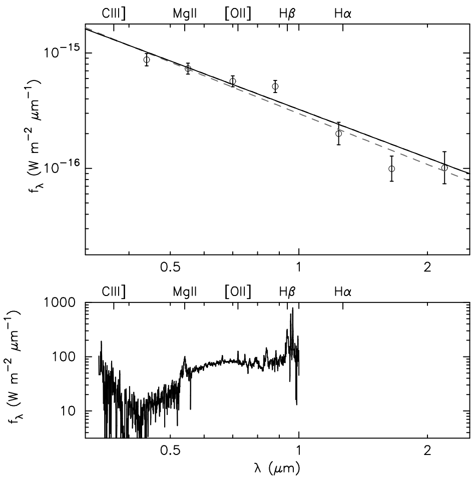
Best model: COMBINED
Best χ^2/ν = 0.876 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.32 μm
0.5 μm ratio = 14.41
0.5 μm fraction = 93.5%

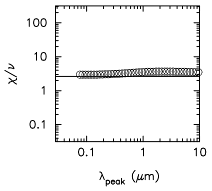


PKS 2120+099, z=0.932

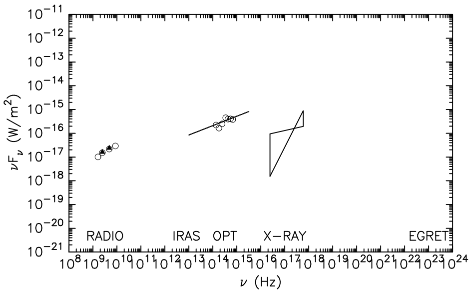
No polarisation measurements

Other name: --
Classification: stellar source
Galactic E(B−V) = 0.057 mag; A_B = 0.245 mag
B = 19.65 B−K = 3.13 M_V = −24.08





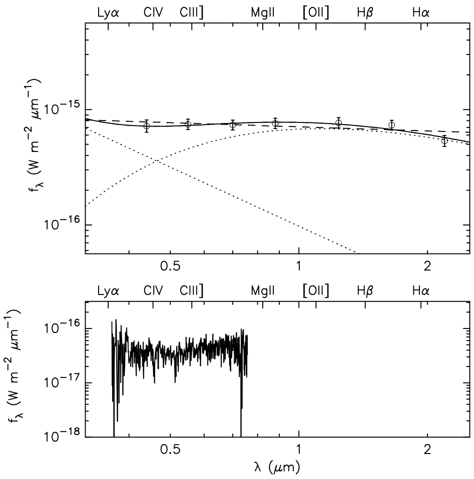
Best model: POWER LAW
Best χ^2/ν = 2.631 (ν=5)
Power law index = −1.39
No synchrotron component

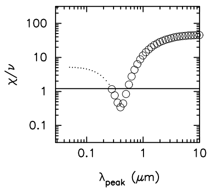


PKS 2121+053, z=1.941

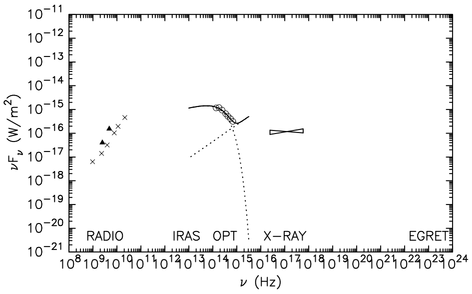
No polarisation measurements

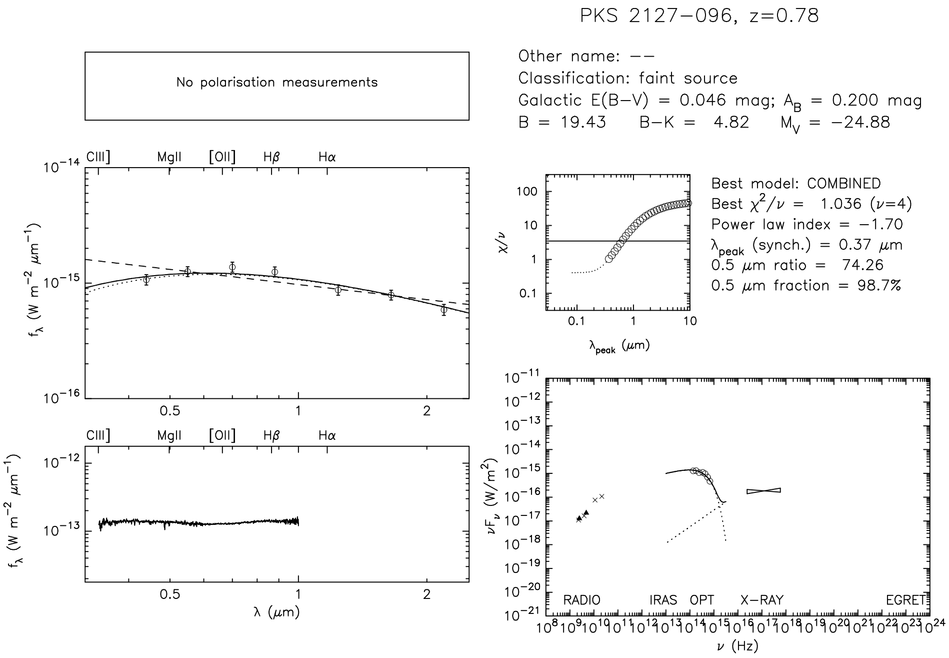
Other name: OX +036
Classification: stellar source
Galactic E(B−V) = 0.073 mag; A_B = 0.314 mag
B = 19.86 B−K = 5.15 M_V = −26.98

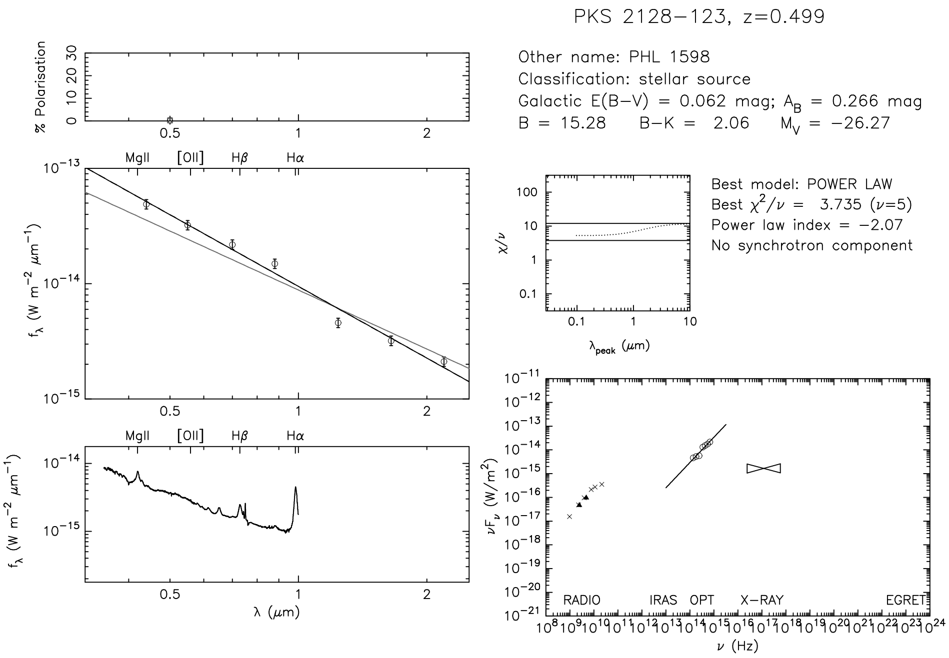




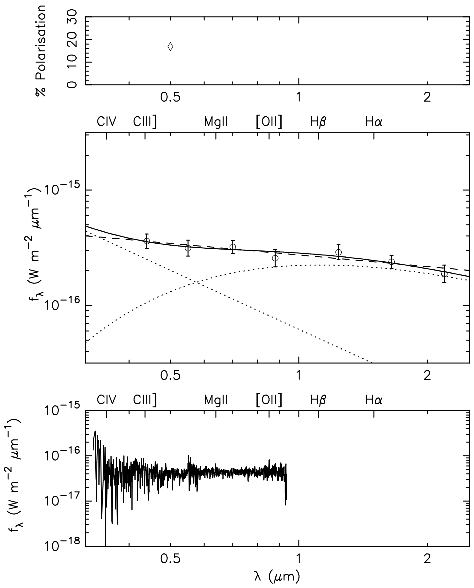
Best model: COMBINED
Best χ^2/ν = 0.342 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.40 μm
0.5 μm ratio = 12.95
0.5 μm fraction = 92.8%



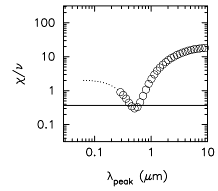

PKS 2127−096, z=0.78
Other name: −−
Classification: faint source
Galactic E(B−V) = 0.046 mag; A_B = 0.200 mag
B = 19.43 B−K = 4.82 M_V = −24.88
No polarisation measurements
Best model: COMBINED
Best χ^2/ν = 1.036 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.37 μm
0.5 μm ratio = 74.26
0.5 μm fraction = 98.7%
CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
ν (Hz)
RADIO IRAS OPT X-RAY EGRET


PKS 2128−123, z=0.499
Other name: PHL 1598
Classification: stellar source
Galactic E(B−V) = 0.062 mag; A_B = 0.266 mag
B = 15.28 B−K = 2.06 M_V = −26.27
% Polarisation
Best model: POWER LAW
Best χ^2/ν = 3.735 (ν=5)
Power law index = −2.07
No synchrotron component
MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
ν (Hz)
RADIO IRAS OPT X-RAY EGRET

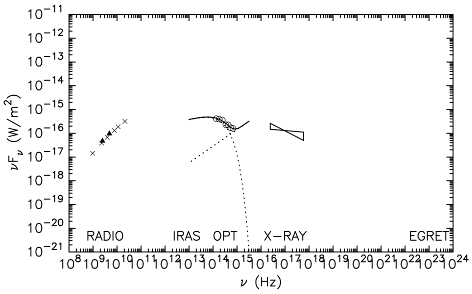
PKS 2131−021, z=1.285



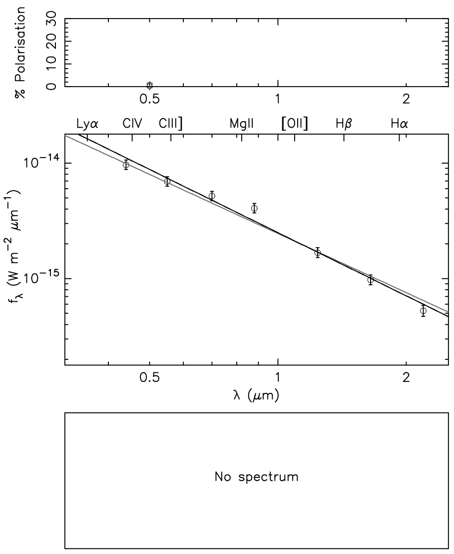
Other name: 4C −02.81
Classification: stellar source, BL Lac (PG95)
Galactic E(B−V) = 0.055 mag; A_B = 0.238 mag
B = 20.61 B−K = 4.76 M_V = −24.34



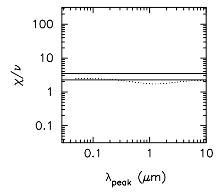
Best model: COMBINED
Best χ^2/ν = 0.302 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.51 μm
0.5 μm ratio = 4.52
0.5 μm fraction = 81.9%



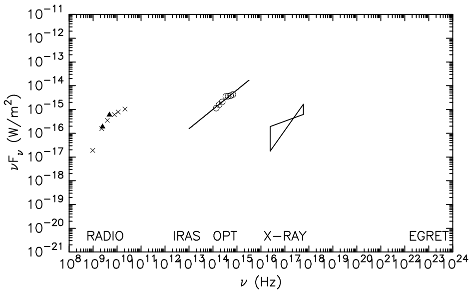
PKS 2134+004, z=1.937

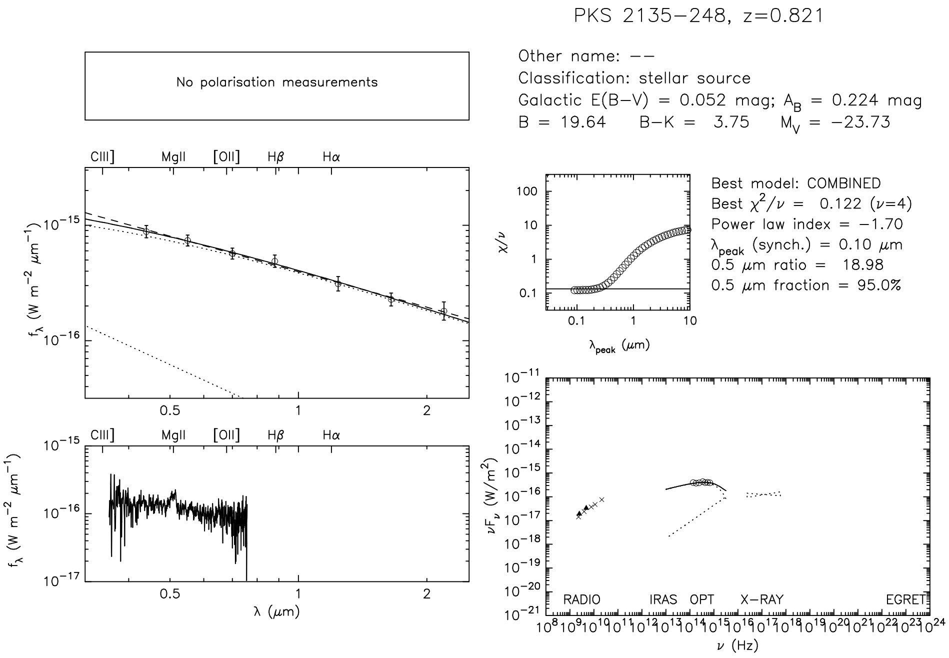


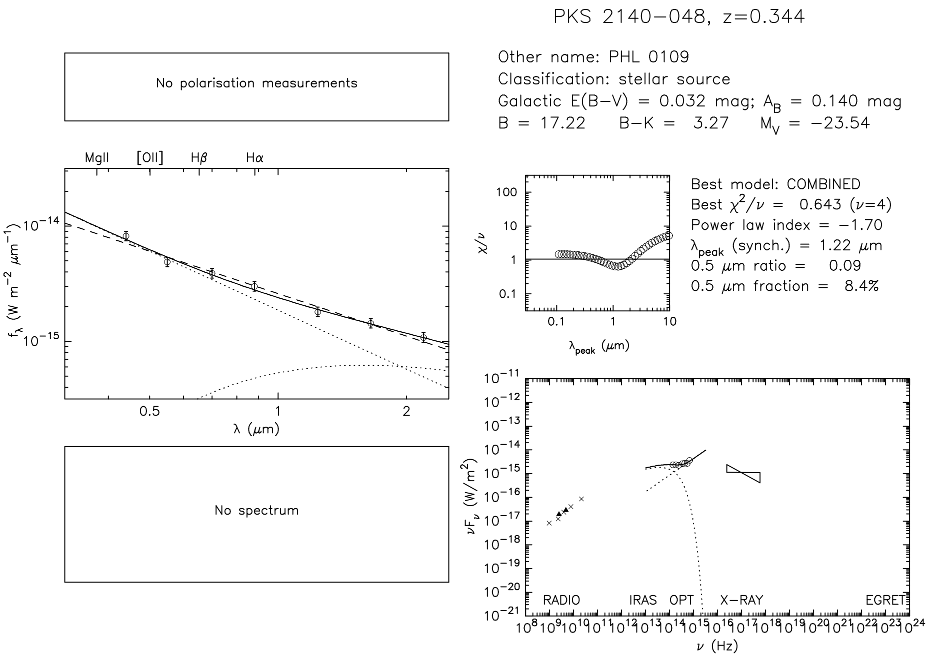
Other name: PHL 0061
Classification: stellar source
Galactic E(B−V) = 0.065 mag; A_B = 0.282 mag
B = 17.04 B−K = 2.31 M_V = −27.87



Best model: POWER LAW
Best χ^2/ν = 2.248 (ν=5)
Power law index = −1.82
No synchrotron component



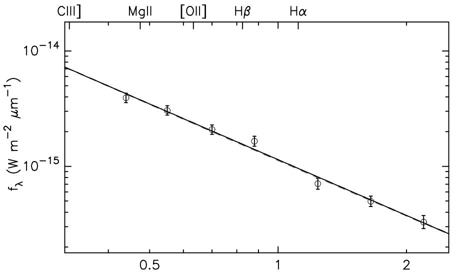

PKS 2135−248, z=0.821
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.052 mag; A_B = 0.224 mag
B = 19.64 B−K = 3.75 M_V = −23.73
No polarisation measurements
Best model: COMBINED
Best χ^2/ν = 0.122 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.10 μm
0.5 μm ratio = 18.98
0.5 μm fraction = 95.0%
CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X-RAY EGRET
ν (Hz)

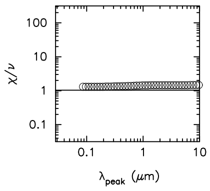

PKS 2140−048, z=0.344
Other name: PHL 0109
Classification: stellar source
Galactic E(B−V) = 0.032 mag; A_B = 0.140 mag
B = 17.22 B−K = 3.27 M_V = −23.54
No polarisation measurements
Best model: COMBINED
Best χ^2/ν = 0.643 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.22 μm
0.5 μm ratio = 0.09
0.5 μm fraction = 8.4%
MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
No spectrum
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X-RAY EGRET
ν (Hz)

PKS 2143−156, z=0.698

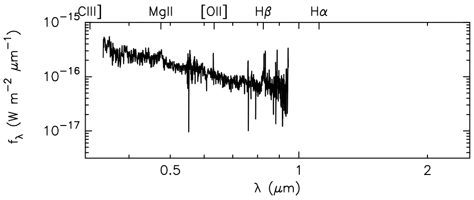
No polarisation measurements

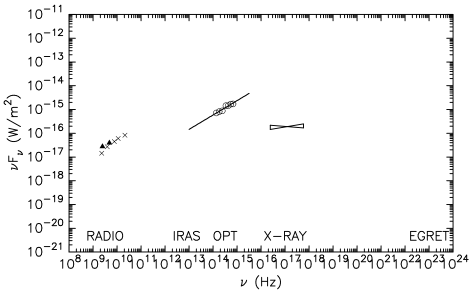
Other name: OX −173
Classification: stellar source
Galactic E(B−V) = 0.098 mag; A_B = 0.422 mag
B = 18.02 B−K = 2.78 M_V = −24.64





Best model: POWER LAW
Best χ^2/ν = 1.041 (ν=5)
Power law index = −1.60
No synchrotron component

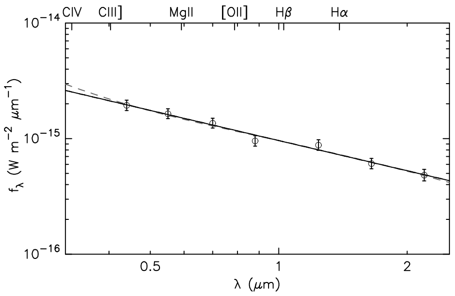


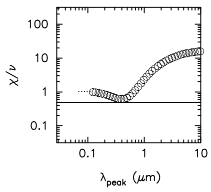


PKS 2144+092, z=1.113

No polarisation measurements

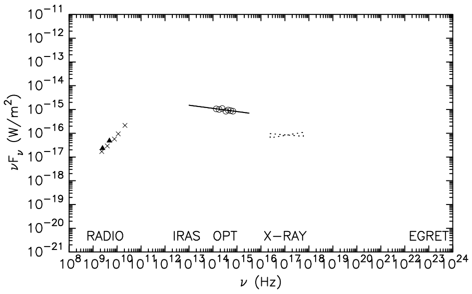
Other name: OX +074
Classification: stellar source
Galactic E(B−V) = 0.072 mag; A_B = 0.311 mag
B = 18.78 B−K = 3.96 M_V = −25.25





Best model: POWER LAW
Best χ^2/ν = 0.488 (ν=5)
Power law index = −0.87
No synchrotron component

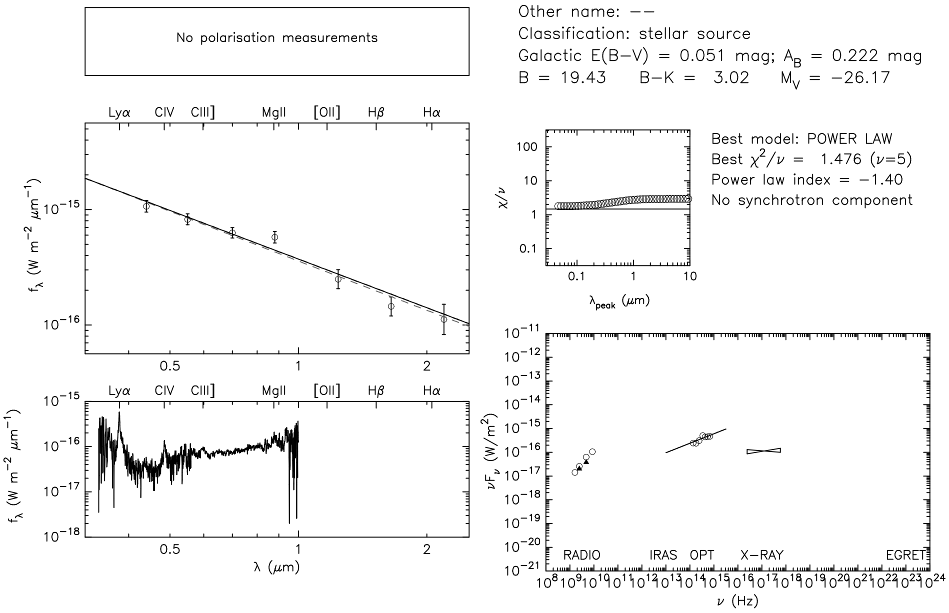
No spectrum



PKS 2145−176, z=2.13

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.051 mag; A_B = 0.222 mag
B = 19.43 B−K = 3.02 M_V = −26.17

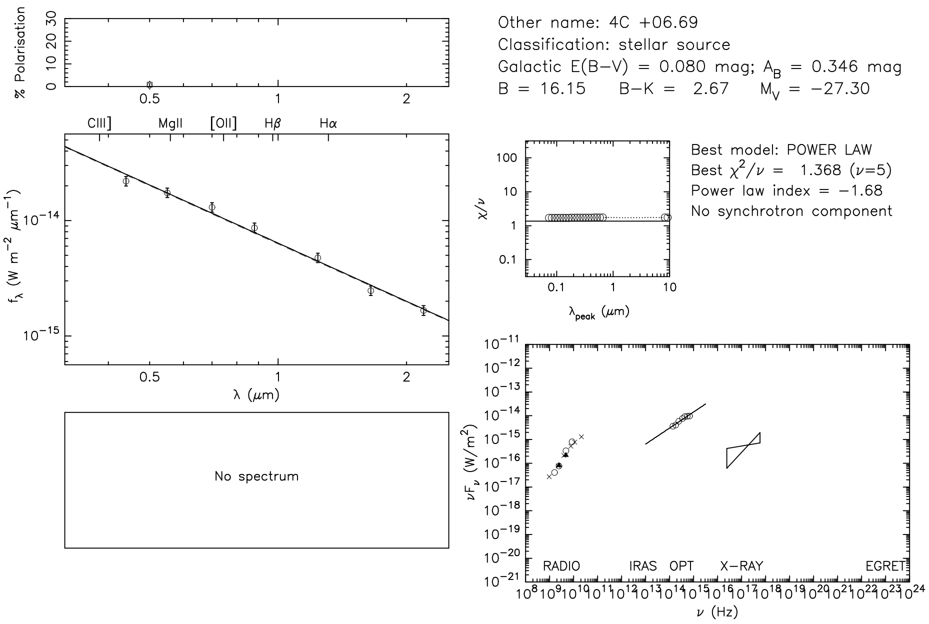
Best model: POWER LAW
Best χ^2/ν = 1.476 (ν=5)
Power law index = −1.40
No synchrotron component



PKS 2145+067, z=0.999

Other name: 4C +06.69
Classification: stellar source
Galactic E(B−V) = 0.080 mag; A_B = 0.346 mag
B = 16.15 B−K = 2.67 M_V = −27.30

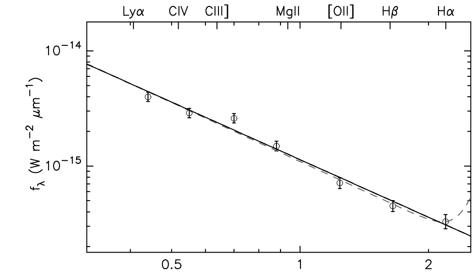
Best model: POWER LAW
Best χ^2/ν = 1.368 (ν=5)
Power law index = −1.68
No synchrotron component

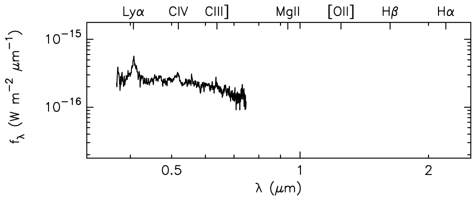


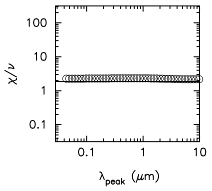
PKS 2149−307, z=2.345

No polarisation measurements

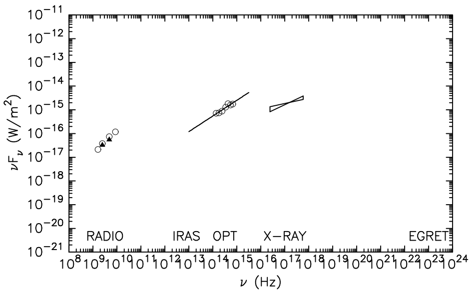
Other name: --
Classification: stellar source
Galactic E(B−V) = 0.025 mag; A_B = 0.109 mag
B = 18.00   B−K = 2.76 M_V = −27.27







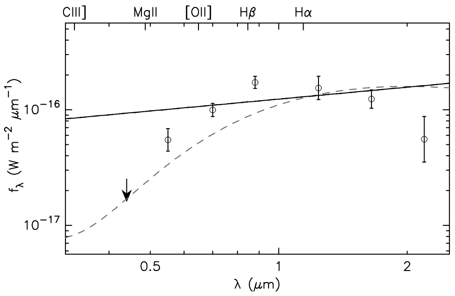
Best model: POWER LAW
Best χ^2/ν = 1.862 (ν=5)
Power law index = −1.66
No synchrotron component

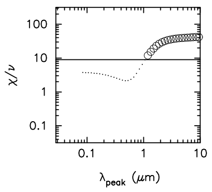


PKS 2149+056, z=0.74

No polarisation measurements

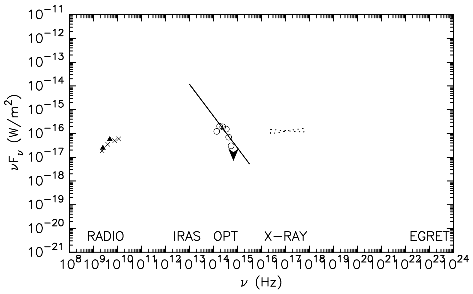
Other name: OX +082
Classification: faint source
Galactic E(B−V) = 0.057 mag; A_B = 0.246 mag
B > 23.50   B−K > 6.33 M_V = −22.65



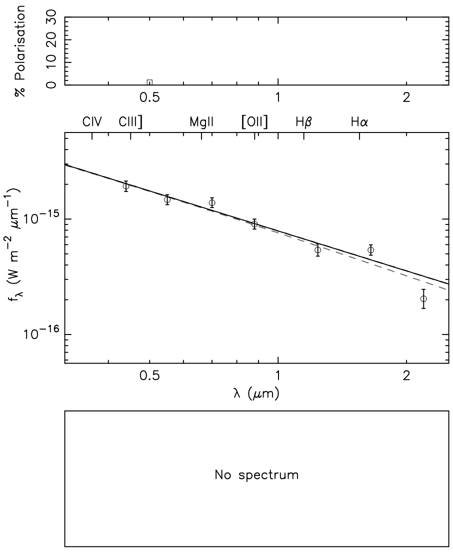


Best model: POWER LAW
Best χ^2/ν = 9.053 (ν=5)
Power law index = 0.34
No synchrotron component

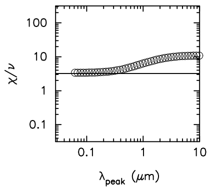
No spectrum



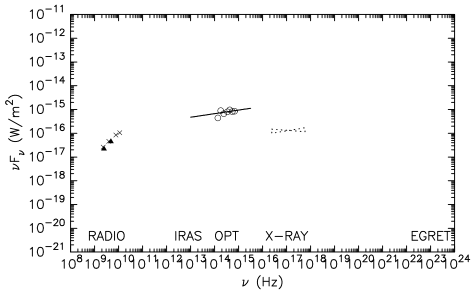
PKS 2149+069, z=1.364



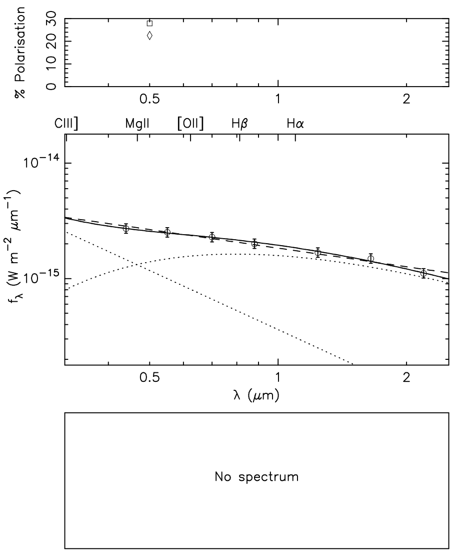
Other name: OX +081
Classification: stellar source
Galactic E(B−V) = 0.052 mag; A_B = 0.226 mag
B = 18.79 B−K = 3.03 M_V = −25.62



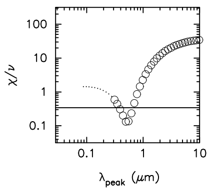
Best model: POWER LAW
Best χ^2/ν = 3.205 (ν=5)
Power law index = −1.15
No synchrotron component



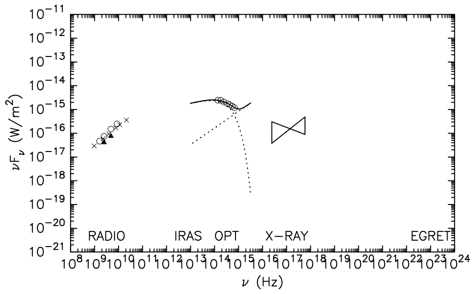
PKS 2155−152, z=0.672



Other name: OX −192
Classification: stellar source
Galactic E(B−V) = 0.048 mag; A_B = 0.208 mag
B = 18.42 B−K = 4.50 M_V = −24.82



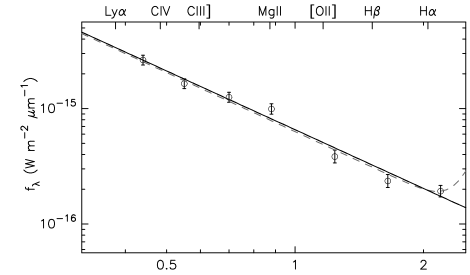
Best model: COMBINED
Best χ^2/ν = 0.133 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.49 μm
0.5 μm ratio = 3.32
0.5 μm fraction = 76.8%

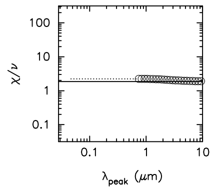


PKS 2200−238, z=2.12

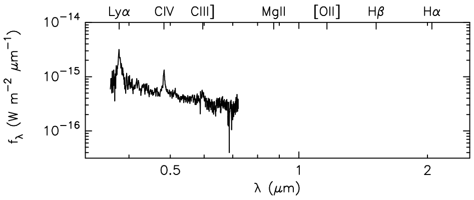
No polarisation measurements

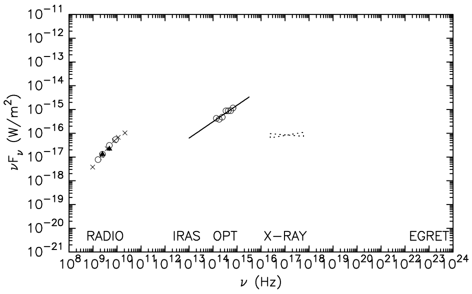
Other name: ––
Classification: stellar source
Galactic E(B−V) = 0.030 mag; A_B = 0.130 mag
B = 18.45 B−K = 2.63 M_V = −26.34



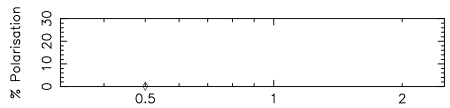


Best model: POWER LAW
Best χ^2/ν = 1.851 (ν=5)
Power law index = −1.69
No synchrotron component

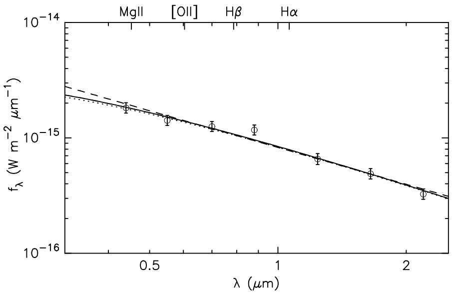


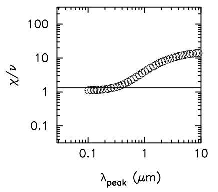


PKS 2203−188, z=0.619



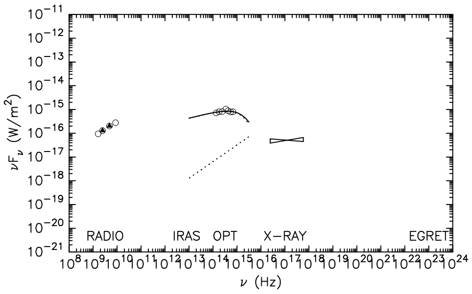
Other name: OY −106
Classification: stellar source
Galactic E(B−V) = 0.027 mag; A_B = 0.116 mag
B = 18.85 B−K = 3.60 M_V = −23.89

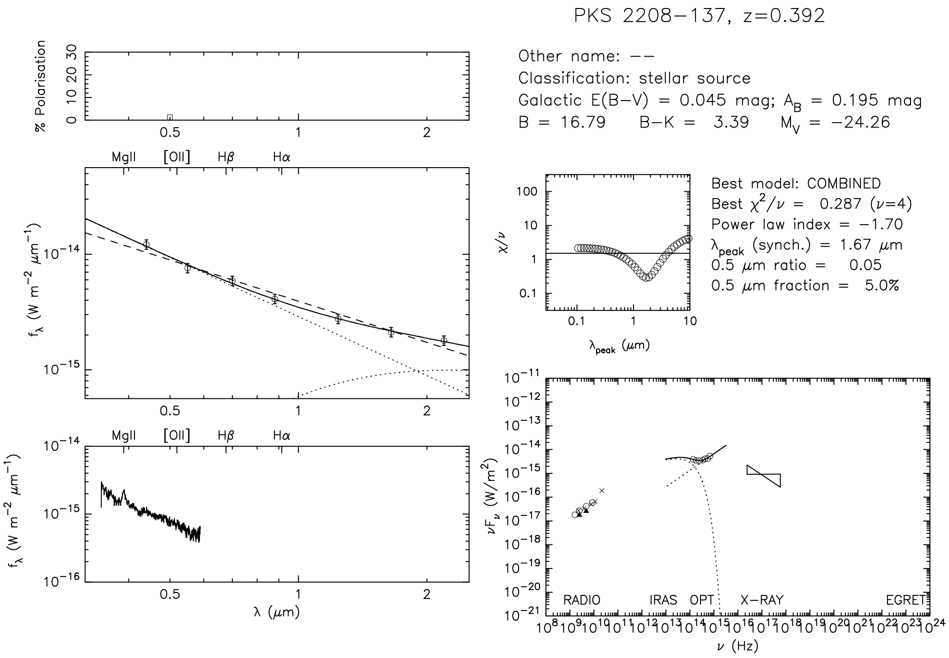


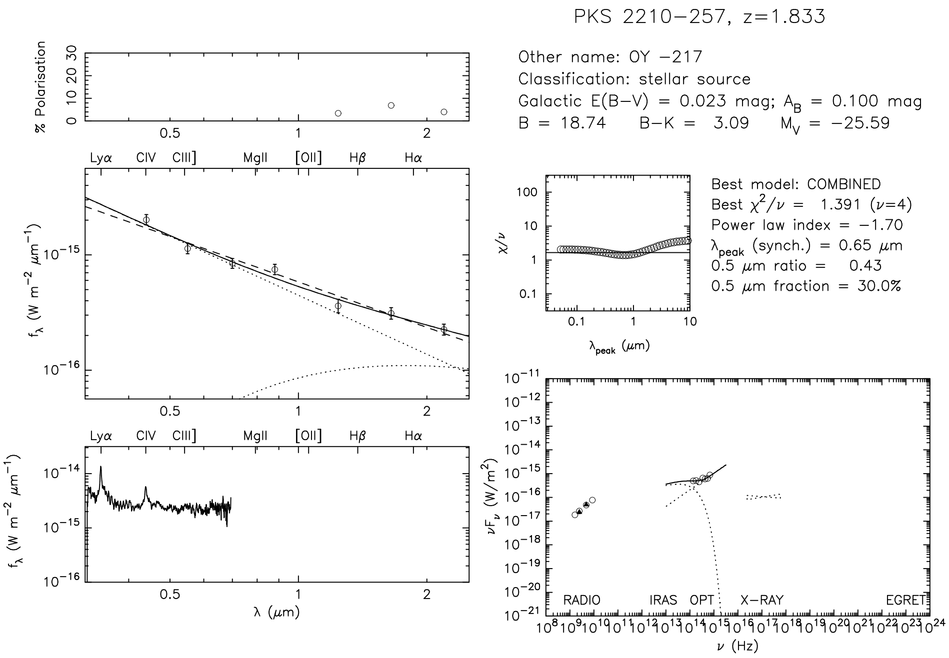


Best model: COMBINED
Best χ^2/ν = 1.126 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.10 μm
0.5 μm ratio = 51.89
0.5 μm fraction = 98.1%

No spectrum



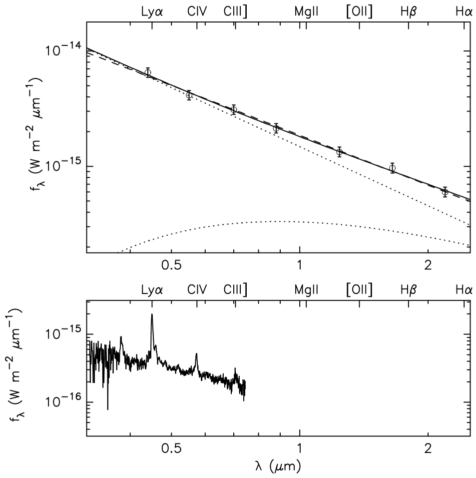

PKS 2208−137, z=0.392
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.045 mag; A_B = 0.195 mag
B = 16.79 B−K = 3.39 M_V = −24.26
Best model: COMBINED
Best χ²/ν = 0.287 (ν=4)
Power law index = −1.70
λ_peak (synch.) = 1.67 μm
0.5 μm ratio = 0.05
0.5 μm fraction = 5.0%
% Polarisation
MgII [OII] Hβ Hα
f_λ (W m⁻² μm⁻¹)
λ (μm)
χ/ν
λ_peak (μm)
νF_ν (W/m²)
RADIO IRAS OPT X−RAY EGRET
ν (Hz)

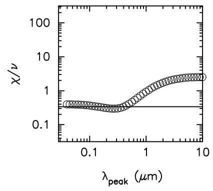

PKS 2210−257, z=1.833
Other name: OY −217
Classification: stellar source
Galactic E(B−V) = 0.023 mag; A_B = 0.100 mag
B = 18.74 B−K = 3.09 M_V = −25.59
Best model: COMBINED
Best χ²/ν = 1.391 (ν=4)
Power law index = −1.70
λ_peak (synch.) = 0.65 μm
0.5 μm ratio = 0.43
0.5 μm fraction = 30.0%
% Polarisation
Lyα CIV CIII] MgII [OII] Hβ Hα
f_λ (W m⁻² μm⁻¹)
λ (μm)
χ/ν
λ_peak (μm)
νF_ν (W/m²)
RADIO IRAS OPT X−RAY EGRET
ν (Hz)

PKS 2212−299, z=2.703

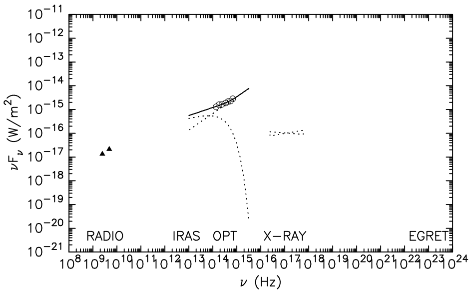
No polarisation measurements

Other name: OY −221
Classification: stellar source
Galactic E(B−V) = 0.015 mag; A_B = 0.064 mag
B = 17.47 B−K = 2.88 M_V = −27.61

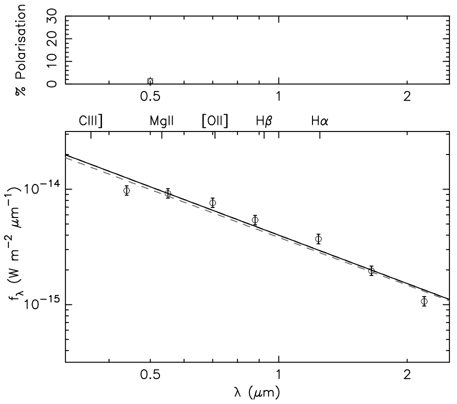




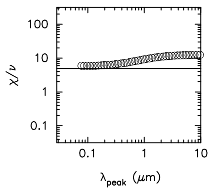
Best model: COMBINED
Best χ^2/ν = 0.296 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.25 μm
0.5 μm ratio = 0.49
0.5 μm fraction = 33.0%



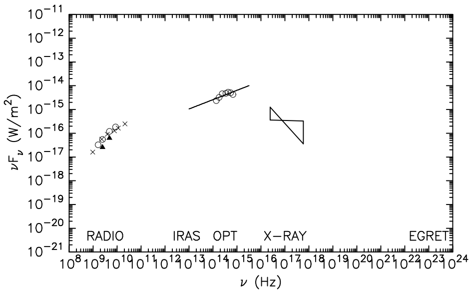
PKS 2216−038, z=0.901



Other name: 4C −03.79
Classification: stellar source
Galactic E(B−V) = 0.095 mag; A_B = 0.410 mag
B = 17.03 B−K = 3.07 M_V = −26.72

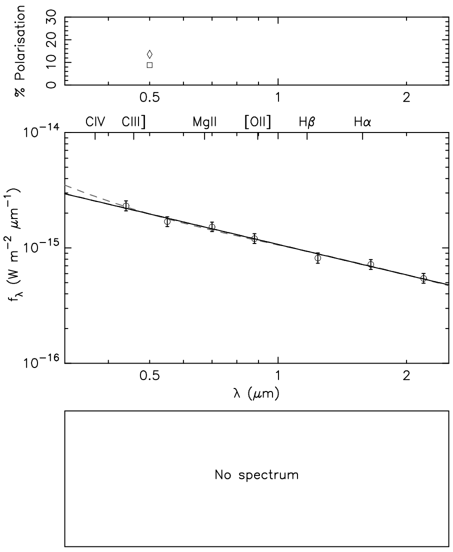


Best model: POWER LAW
Best χ^2/ν = 4.968 (ν=5)
Power law index = −1.39
No synchrotron component

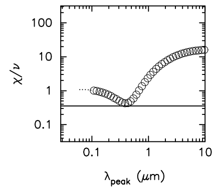


No spectrum

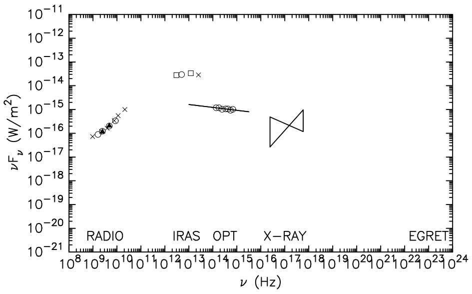
PKS 2223−052, z=1.404



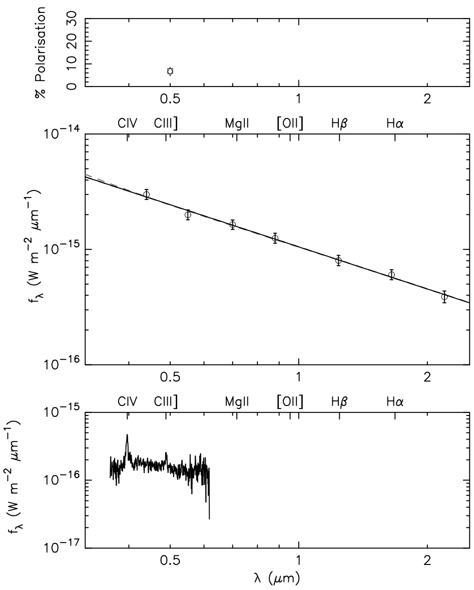
Other name: 3C 446
Classification: stellar source
Galactic E(B−V) = 0.075 mag; A_B = 0.326 mag
B = 18.59 B−K = 3.90 M_V = −25.95



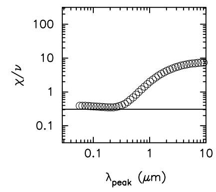
Best model: POWER LAW
Best χ^2/ν = 0.357 (ν=5)
Power law index = −0.88
No synchrotron component



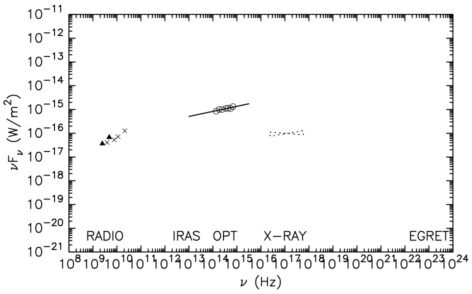
PKS 2227−088, z=1.561



Other name: PHL 5225
Classification: stellar source
Galactic E(B−V) = 0.051 mag; A_B = 0.221 mag
B = 18.31 B−K = 3.25 M_V = −26.06



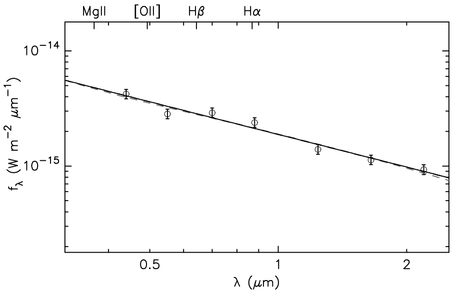
Best model: POWER LAW
Best χ^2/ν = 0.308 (ν=5)
Power law index = −1.21
No synchrotron component

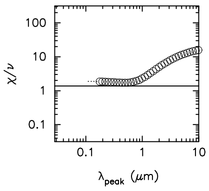


PKS 2227−399, z=0.323

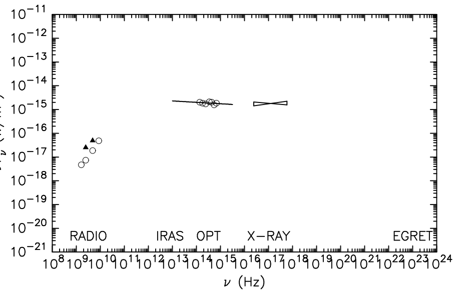
No polarisation measurements

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.018 mag; A_B = 0.077 mag
B = 17.94 B−K = 3.83 M_V = −23.02





Best model: POWER LAW
Best χ^2/ν = 1.386 (ν=5)
Power law index = −0.94
No synchrotron component

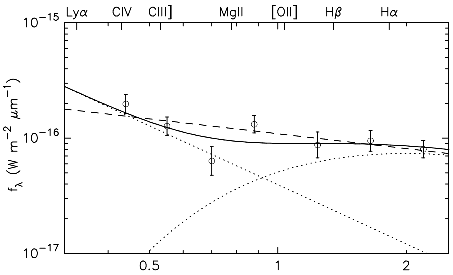


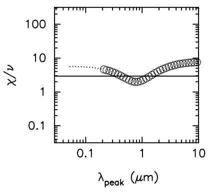
No spectrum

PKS 2229−172, z=1.78

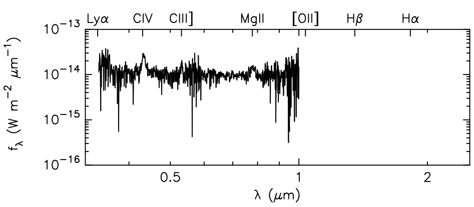
No polarisation measurements

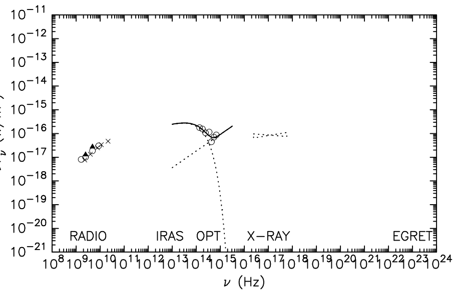
Other name: OY −150
Classification: faint source
Galactic E(B−V) = 0.035 mag; A_B = 0.152 mag
B = 21.26 B−K = 4.49 M_V = −24.04





Best model: COMBINED
Best χ^2/ν = 1.994 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.75 μm
0.5 μm ratio = 2.98
0.5 μm fraction = 74.9%

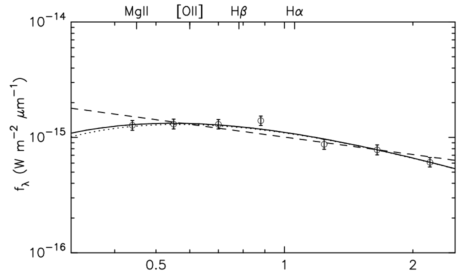


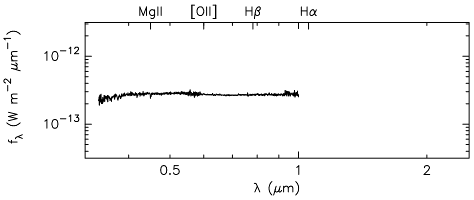


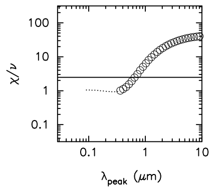
PKS 2233−148, z=0.609

No polarisation measurements

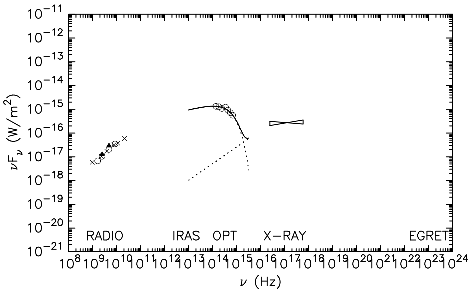
Other name: OY −156
Classification: stellar source, BL Lac Cand. (PG95)
Galactic E(B−V) = 0.043 mag; A_B = 0.186 mag
B = 19.24 B−K = 4.67 M_V = −24.14







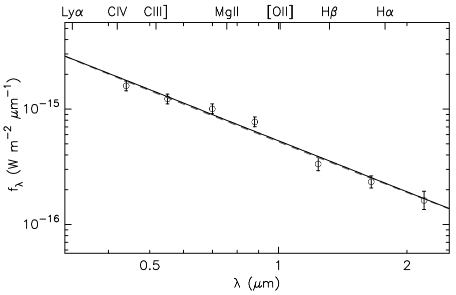
Best model: COMBINED
Best χ^2/ν = 1.013 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.36 μm
0.5 μm ratio = 74.68
0.5 μm fraction = 98.7%

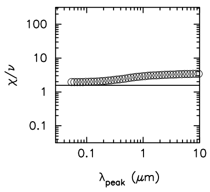


PKS 2239+096, z=1.707

No polarisation measurements

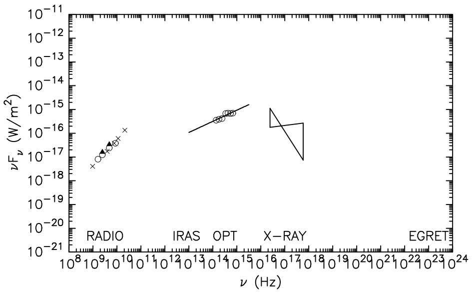
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.078 mag; A_B = 0.335 mag
B = 19.00 B−K = 2.99 M_V = −25.95



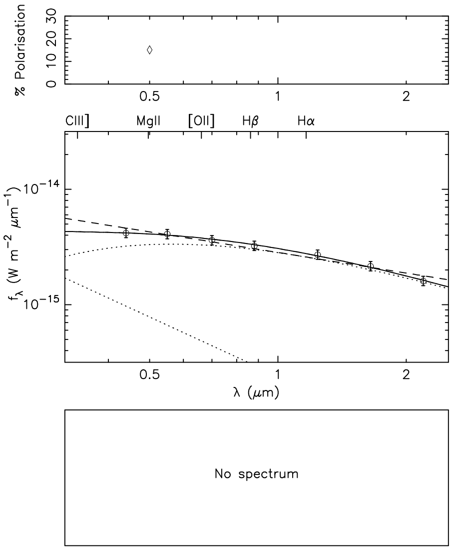


Best model: POWER LAW
Best χ^2/ν = 1.565 (ν=5)
Power law index = −1.47
No synchrotron component

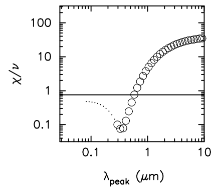
No spectrum



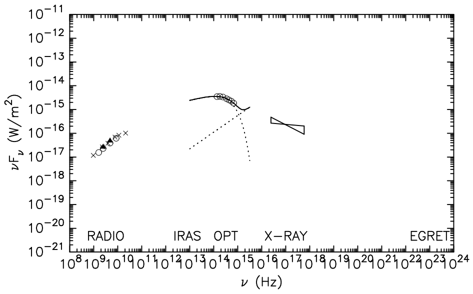
PKS 2240−260, z=0.774



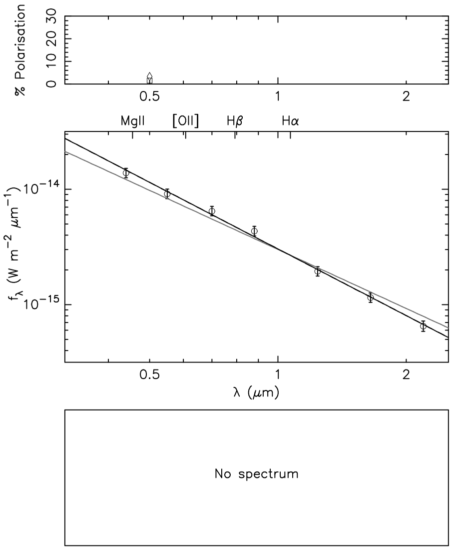
Other name: OY −268
Classification: stellar source, BL Lac (PG95)
Galactic E(B−V) = 0.021 mag; A_B = 0.092 mag
B = 17.95 B−K = 4.43 M_V = −25.75



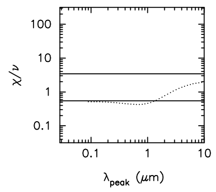
Best model: COMBINED
Best χ^2/ν = 0.076 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.33 μm
0.5 μm ratio = 10.16
0.5 μm fraction = 91.0%



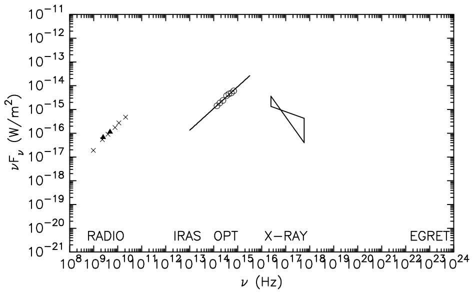
PKS 2243−123, z=0.63



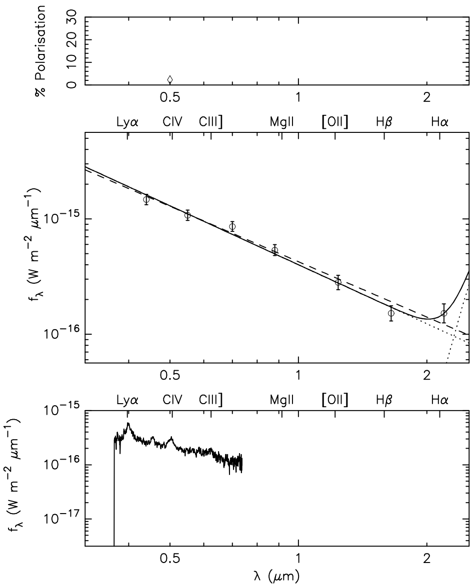
Other name: PB 07192
Classification: stellar source
Galactic E(B−V) = 0.050 mag; A_B = 0.216 mag
B = 16.65 B−K = 2.15 M_V = −25.41



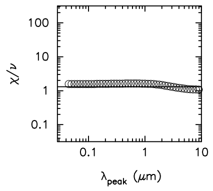
Best model: POWER LAW
Best χ^2/ν = 0.548 (ν=5)
Power law index = −1.92
No synchrotron component



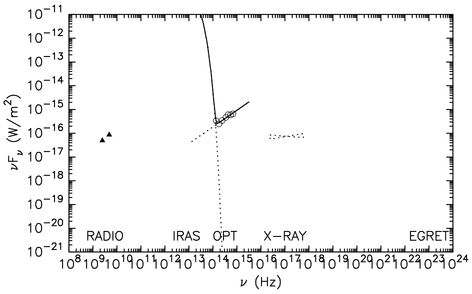
PKS 2245−328, z=2.268



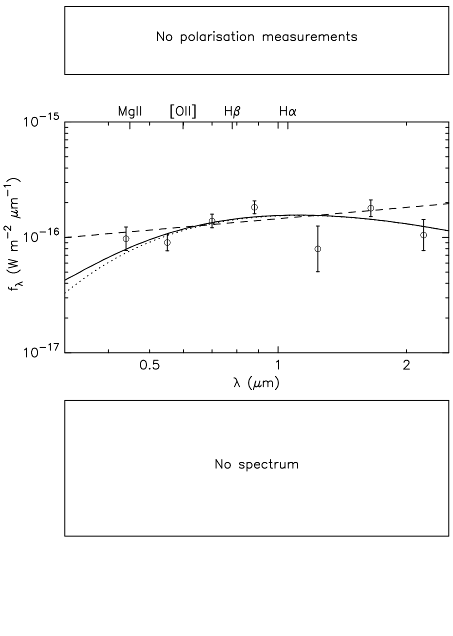
Other name: OY −376
Classification: stellar source
Galactic E(B−V) = 0.019 mag; A_B = 0.080 mag
B = 19.08 B−K = 3.00 M_V = −26.01



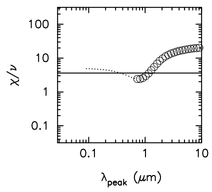
Best model: COMBINED
Best χ^2/ν = 1.077 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 8.95 μm
0.5 μm ratio = 0.00
0.5 μm fraction = 0.2%



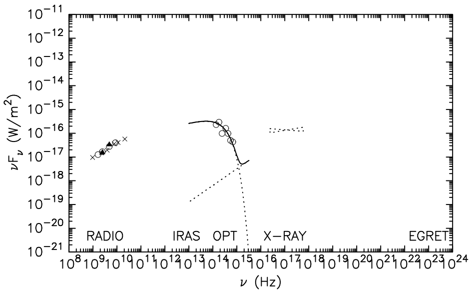
PKS 2252−090, z=0.6064



Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.043 mag; A_B = 0.187 mag
B = 22.03 B−K = 5.55 M_V = −21.76



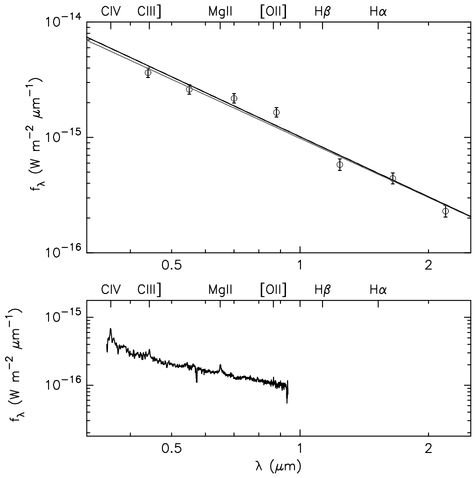
Best model: COMBINED
Best χ^2/ν = 2.410 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.73 μm
0.5 μm ratio = 72.21
0.5 μm fraction = 98.6%

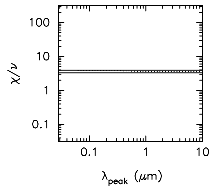


PKS 2312−319, z=1.323

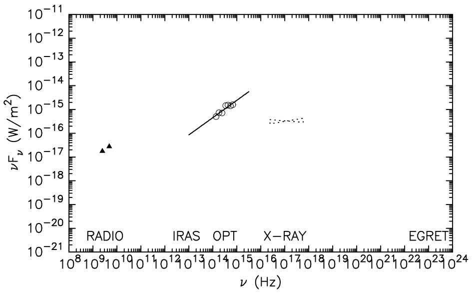
No polarisation measurements

Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.016 mag; A_B = 0.069 mag
B = 18.10   B−K = 2.47 M_V = −26.08





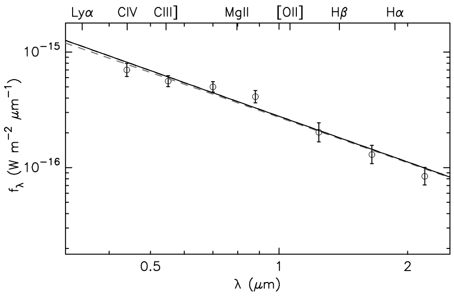
Best model: POWER LAW
Best χ^2/ν = 3.292 (ν=5)
Power law index = −1.73
No synchrotron component



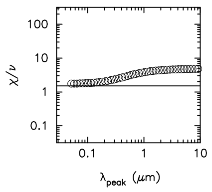
PKS 2313−438, z=1.847

No polarisation measurements

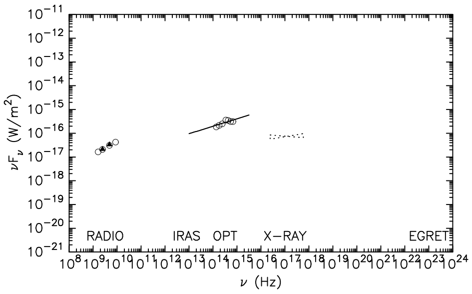
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.010 mag; A_B = 0.044 mag
B = 19.89   B−K = 3.17 M_V = −25.62

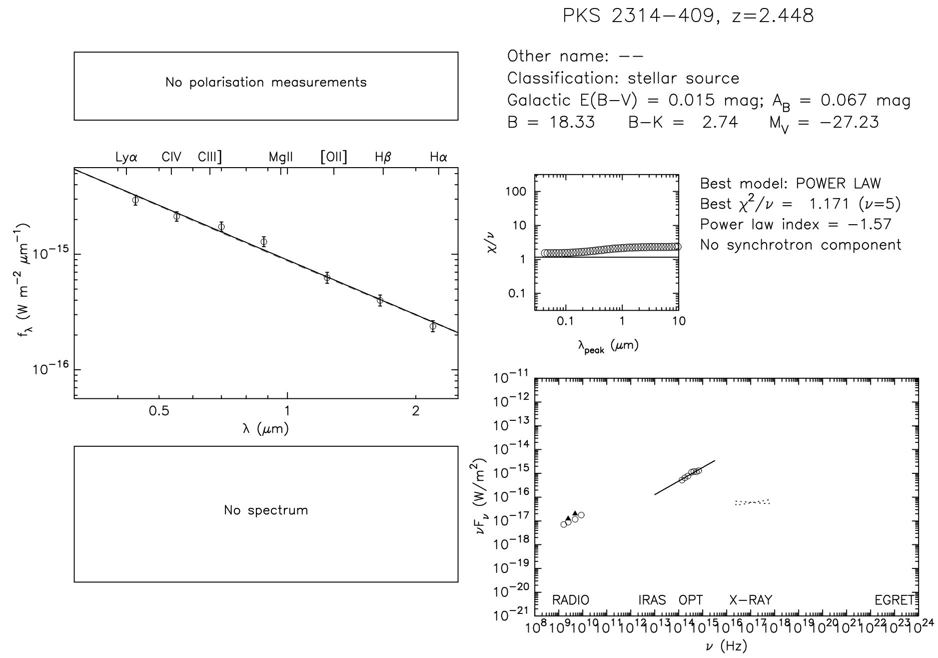


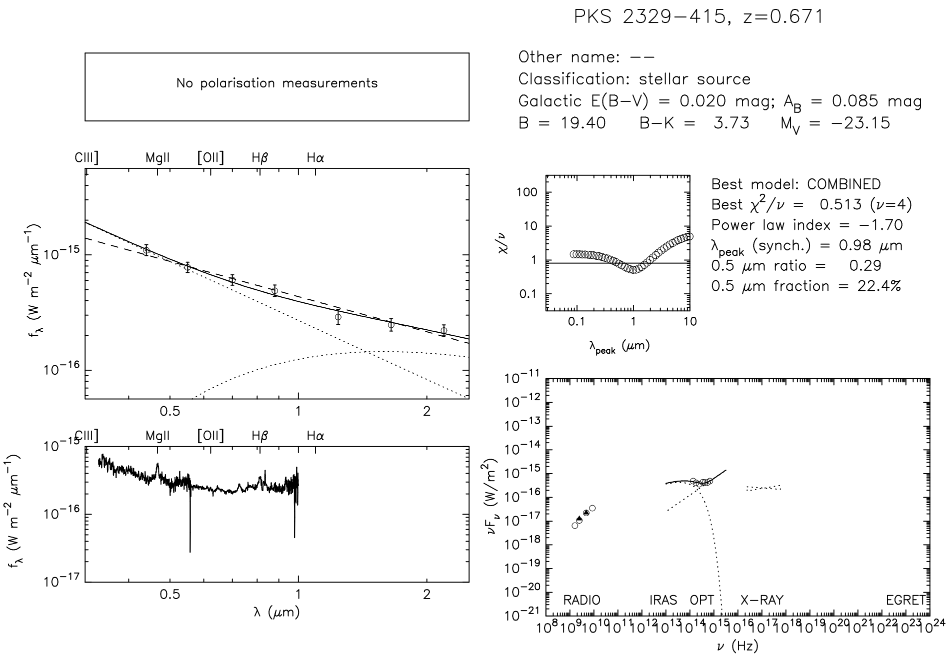
No spectrum



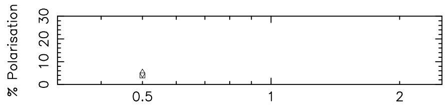
Best model: POWER LAW
Best χ^2/ν = 1.516 (ν=5)
Power law index = −1.31
No synchrotron component



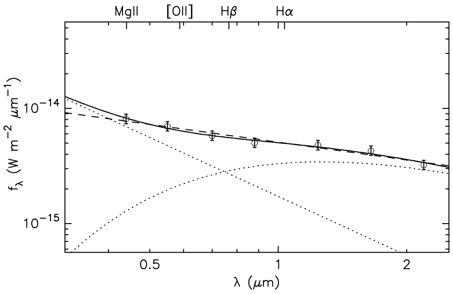

PKS 2314−409, z=2.448
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.015 mag; A_B = 0.067 mag
B = 18.33 B−K = 2.74 M_V = −27.23
No polarisation measurements
Best model: POWER LAW
Best χ^2/ν = 1.171 (ν=5)
Power law index = −1.57
No synchrotron component
Lyα CIV CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
No spectrum
νF_ν (W/m^2)
RADIO IRAS OPT X-RAY EGRET
ν (Hz)

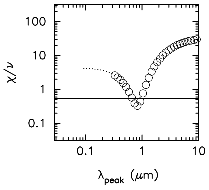

PKS 2329−415, z=0.671
Other name: −−
Classification: stellar source
Galactic E(B−V) = 0.020 mag; A_B = 0.085 mag
B = 19.40 B−K = 3.73 M_V = −23.15
No polarisation measurements
Best model: COMBINED
Best χ^2/ν = 0.513 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.98 μm
0.5 μm ratio = 0.29
0.5 μm fraction = 22.4%
CIII] MgII [OII] Hβ Hα
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
RADIO IRAS OPT X-RAY EGRET
ν (Hz)

PKS 2345−167, z=0.576



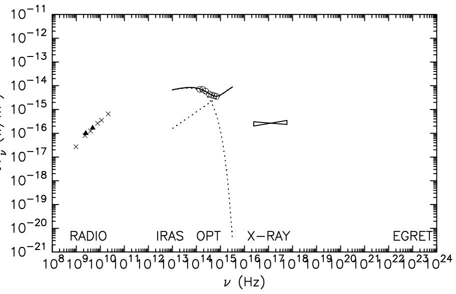
Other name: OZ −176
Classification: stellar source
Galactic E(B−V) = 0.026 mag; A_B = 0.112 mag
B = 17.23 B−K = 4.47 M_V = −25.40





Best model: COMBINED
Best χ^2/ν = 0.328 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.83 μm
0.5 μm ratio = 1.14
0.5 μm fraction = 53.2%

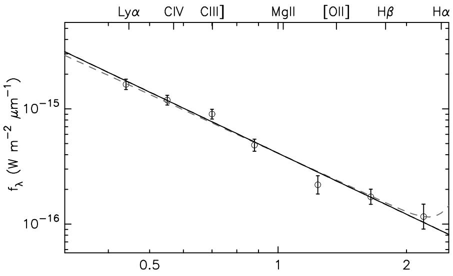
No spectrum

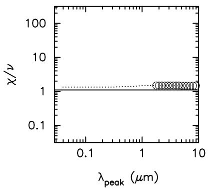


PKS 2351−154, z=2.675

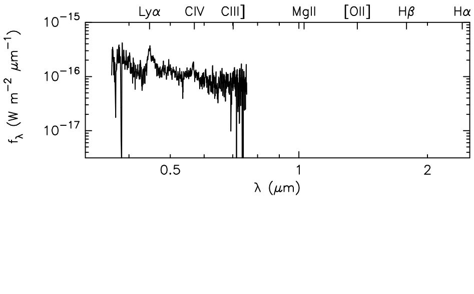
Other name: OZ −187
Classification: stellar source
Galactic E(B−V) = 0.034 mag; A_B = 0.145 mag
B = 18.97 B−K = 2.60 M_V = −26.12

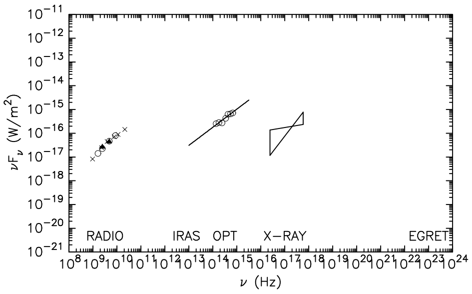
No polarisation measurements



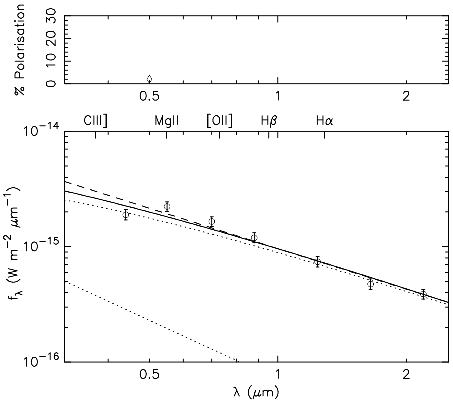


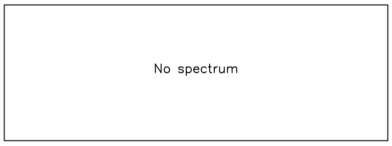
Best model: POWER LAW
Best χ^2/ν = 1.110 (ν=5)
Power law index = −1.76
No synchrotron component





PKS 2354−117, z=0.96



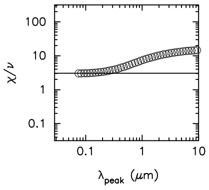


Other name: --

Classification: stellar source

Galactic E(B−V) = 0.032 mag; A_B = 0.136 mag

B = 18.81 B−K = 3.75 M_V = −25.41



Best model: COMBINED

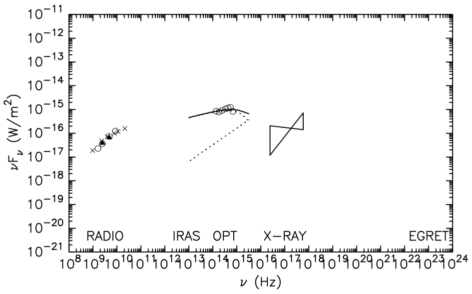
Best χ^2/ν = 3.025 (ν=4)

Power law index = −1.70

λ_{peak} (synch.) = 0.07 μm

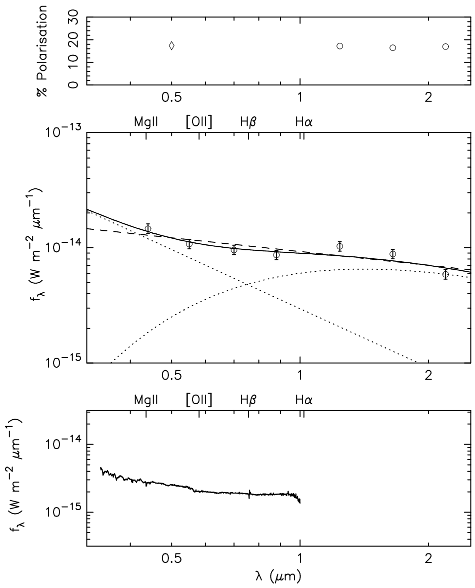
0.5 μm ratio = 12.40

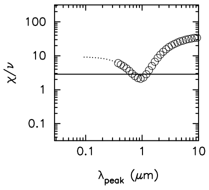
0.5 μm fraction = 92.5%



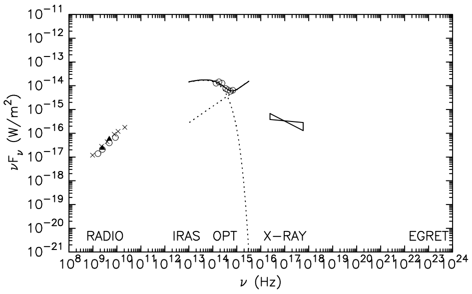
PKS 0118−272, z=0.556

Other name: OC −230.4
Classification: stellar source, BL Lac (PG95)
Galactic E(B−V) = 0.014 mag; A_B = 0.059 mag
B = 16.59 B−K = 4.48 M_V = −25.77



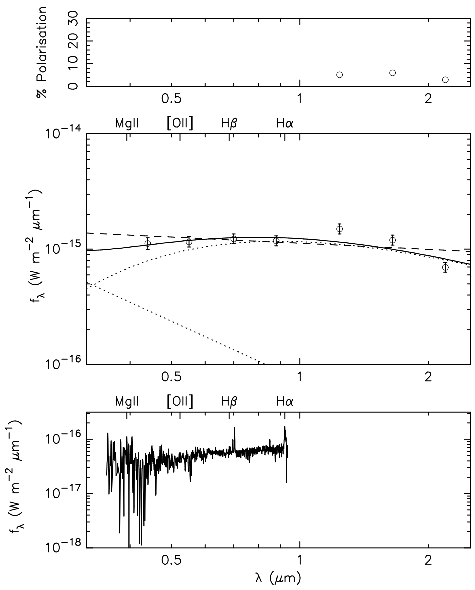


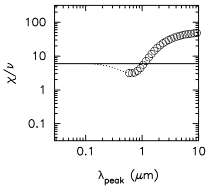
Best model: COMBINED
Best χ^2/ν = 2.099 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.94 μm
0.5 μm ratio = 1.10
0.5 μm fraction = 52.4%



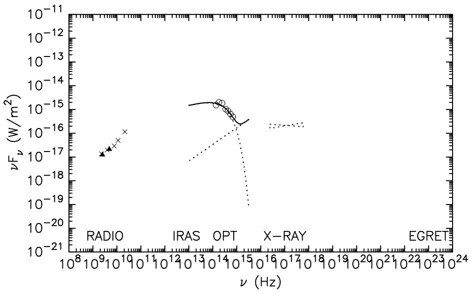
PKS 0454+066, z=0.405

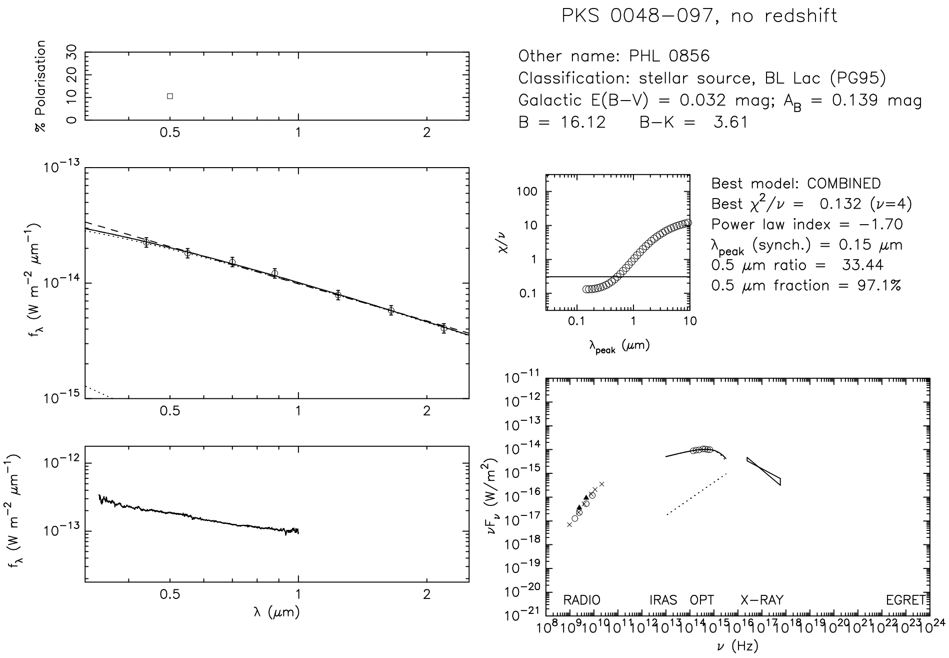
Other name: 4C +06.21
Classification: stellar source
Galactic E(B−V) = 0.081 mag; A_B = 0.349 mag
B = 19.38 B−K = 4.96 M_V = −22.88

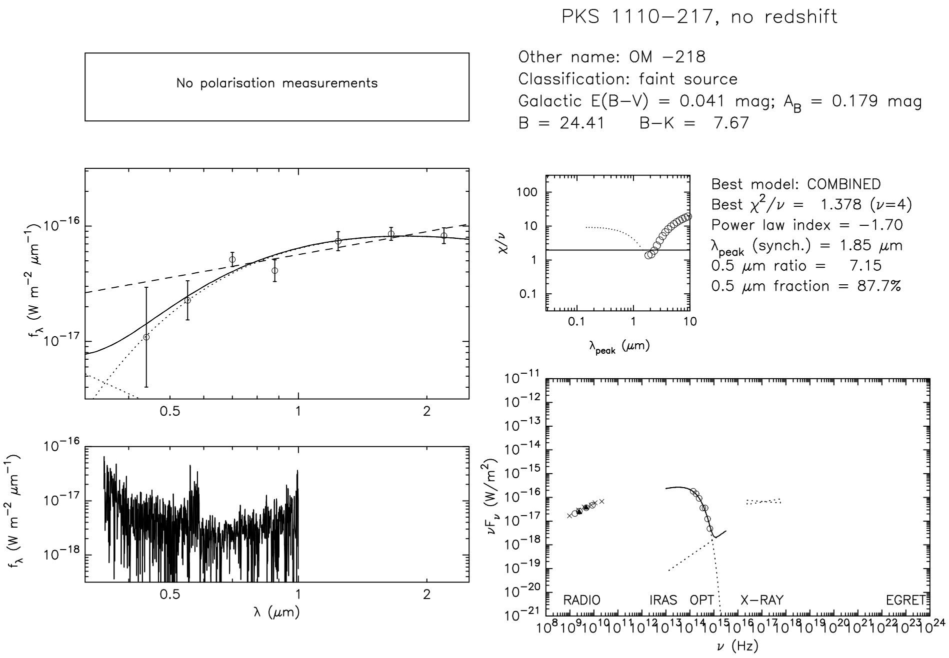




Best model: COMBINED
Best χ^2/ν = 3.078 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.66 μm
0.5 μm ratio = 8.45
0.5 μm fraction = 89.4%



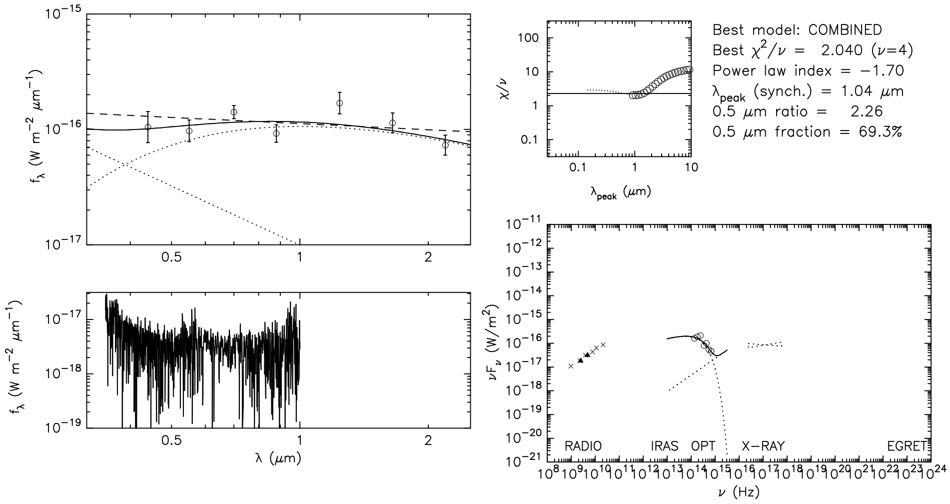

PKS 0048−097, no redshift
Other name: PHL 0856
Classification: stellar source, BL Lac (PG95)
Galactic E(B−V) = 0.032 mag; A_B = 0.139 mag
B = 16.12 B−K = 3.61
Best model: COMBINED
Best χ^2/ν = 0.132 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 0.15 μm
0.5 μm ratio = 33.44
0.5 μm fraction = 97.1%
% Polarisation
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
ν (Hz)
RADIO IRAS OPT X-RAY EGRET


PKS 1110−217, no redshift
Other name: OM −218
Classification: faint source
Galactic E(B−V) = 0.041 mag; A_B = 0.179 mag
B = 24.41 B−K = 7.67
No polarisation measurements
Best model: COMBINED
Best χ^2/ν = 1.378 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.85 μm
0.5 μm ratio = 7.15
0.5 μm fraction = 87.7%
f_λ (W m^{-2} μm^{-1})
λ (μm)
χ/ν
λ_{peak} (μm)
νF_ν (W/m^2)
ν (Hz)
RADIO IRAS OPT X-RAY EGRET

PKS 1156−094, no redshift

No polarisation measurements

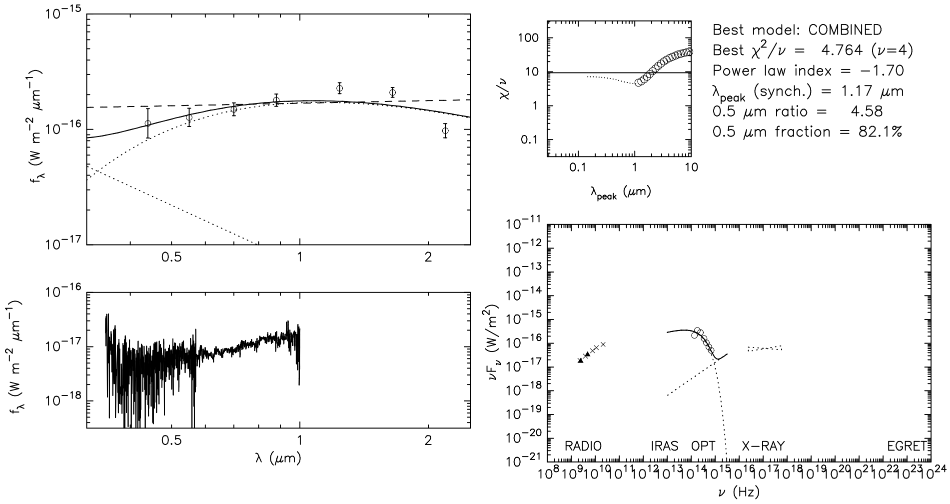
Other name: OM −094
Classification: faint source
Galactic E(B−V) = 0.040 mag; A_B = 0.173 mag
B = 21.95   B−K = 5.08



PKS 1648+015, no redshift

No polarisation measurements

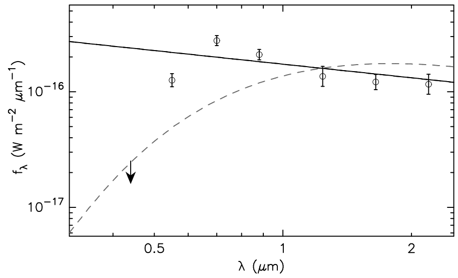
Other name: −−
Classification: faint source
Galactic E(B−V) = 0.076 mag; A_B = 0.327 mag
B = 21.87   B−K = 5.31

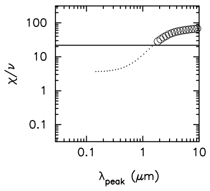


PKS 1732+094, no redshift

No polarisation measurements

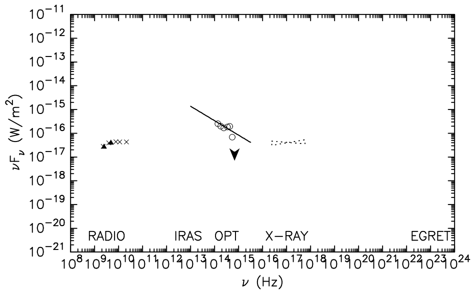
Other name: OT +054
Classification: faint source
Galactic E(B−V) = 0.161 mag; A_B = 0.697 mag
B > 23.50   B−K > 7.13





Best model: POWER LAW
Best χ^2/ν = 21.855 (ν=5)
Power law index = −0.39
No synchrotron component

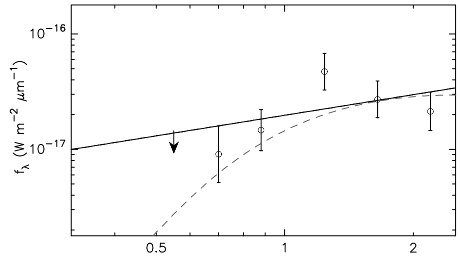
No spectrum

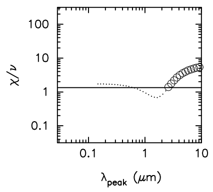


PKS 2056−369, no redshift

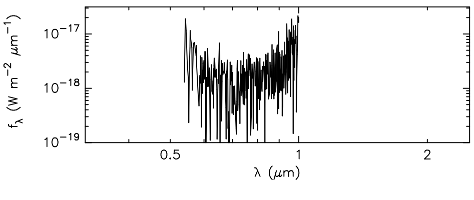
No polarisation measurements

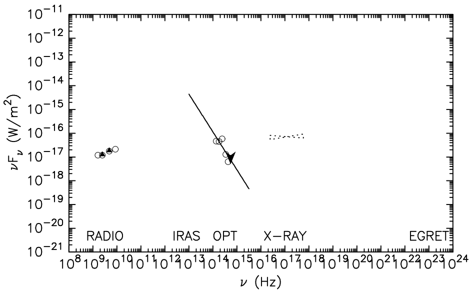
Other name: --
Classification: faint source
Galactic E(B−V) = 0.068 mag; A_B = 0.294 mag
V > 23.50   V−K > 5.29





Best model: POWER LAW
Best χ^2/ν = 1.348 (ν=4)
Power law index = 0.59
No synchrotron component

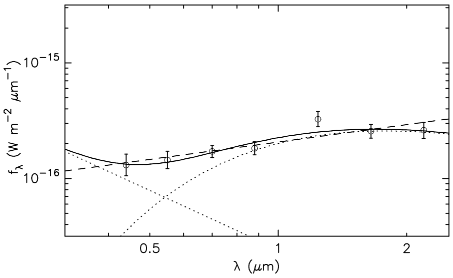


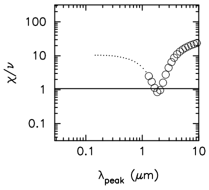


PKS 2245+029, no redshift

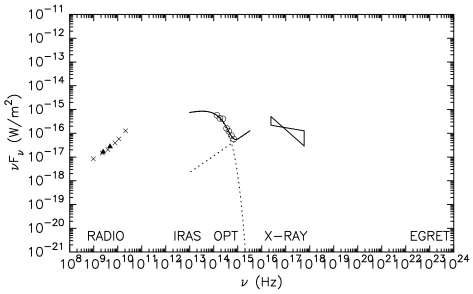
No polarisation measurements

Other name: --
Classification: stellar source
Galactic E(B−V) = 0.057 mag; A_B = 0.248 mag
B = 21.71   B−K = 6.22





Best model: COMBINED
Best χ^2/ν = 0.847 (ν=4)
Power law index = −1.70
λ_{peak} (synch.) = 1.85 μm
0.5 μm ratio = 0.69
0.5 μm fraction = 40.8%

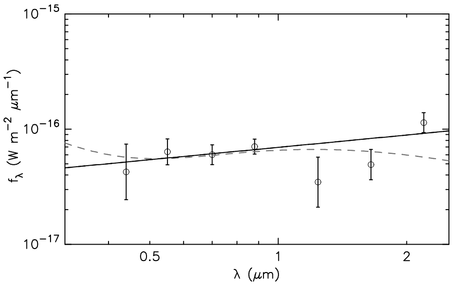


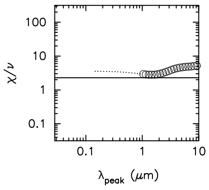
No spectrum

PKS 2337−334, no redshift

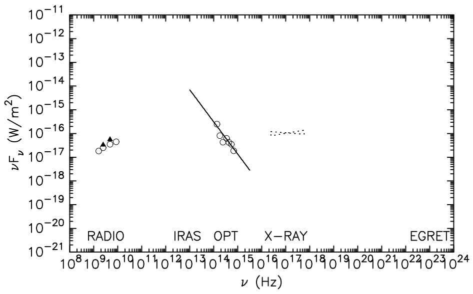
No polarisation measurements

Other name: --
Classification: faint source
Galactic E(B−V) = 0.013 mag; A_B = 0.055 mag
B = 22.93   B−K = 6.54





Best model: POWER LAW
Best χ^2/ν = 2.276 (ν=5)
Power law index = 0.36
No synchrotron component

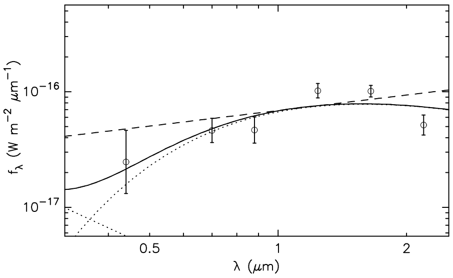


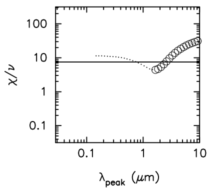
No spectrum

PKS 2344−192, no redshift

No polarisation measurements

Other name: OZ −174
Classification: faint source
Galactic E(B−V) = 0.022 mag; A_B = 0.095 mag
B = 23.52   B−K = 6.27





Best model: COMBINED
Best χ^2/ν = 4.400 (ν=3)
Power law index = −1.70
λ_{peak} (synch.) = 1.65 μm
0.5 μm ratio = 5.01
0.5 μm fraction = 83.4%

No spectrum