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 $\chi^2/\nu$ for each value of $\lambda_p$ 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 $\chi^2/\nu$ 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 $\chi^2/\nu$ 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 $\chi^2/\nu$ value and $\nu$, 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 0.5$\mu$m (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 0.5$\mu$m, 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 $f_\lambda$ against $\lambda$ (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 obser-
vations 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, δ_B = 0.097 mag
B = 16.74  B-K = 2.58  M_v = -24.95

No spectrum

PKS 0048–071, z=1.974

Other name: OB–082
Classification: faint source
Galactic E(B-V) = 0.008 mag, δ_B = 0.252 mag
B = 20.74  B-K = 3.20  M_v = -24.92

No synchrotron component
PKS 0048–427, z=1.749

Other name: --
Classification: stellar source
Galactic E(B–V) = 0.012 mag; A_V = 0.002 mag
B = 18.62   B–K = 2.43   M_Y = −25.94

No spectrum

PKS 0056–001, z=0.719

Other name: LB05 0056–0009
Classification: stellar source
Galactic E(B–V) = 0.027 mag; A_B = 0.115 mag
B = 17.73   B–K = 2.61   M_Y = −24.54

No spectrum
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

PKS 0202-172, z=1.74

Other name: --
Classification: stellar source
Galactic E(B-V) = 0.031 mag, A_B = 0.135 mag
B = 17.45 B-K = 2.11 M_v = -26.81

No spectrum
PKS 0213-026, z=1.178
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

PKS 0216+011, z=1.61
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
Fits to data

PKS 0220−349, $z=1.49$

Other name: --
Classification: faint source
Galactic $E(B−V) = 0.018$ mag, $A_B = 0.078$ mag
$B = 21.73$  $B−K = 4.91$  $M_B = −24.10$

PKS 0221+067, $z=0.51$

Other name: 4C +06.11
Classification: stellar source
Galactic $E(B−V) = 0.074$ mag, $A_B = 0.321$ mag
$B = 19.85$  $B−K = 5.38$  $M_B = −23.59$
PKS 0226–038, z=2.066

Other name: 4C –03.07
Classification: stellar source
Galactic E(B–V) = 0.030 mag; A_S = 0.130 mag
B = 17.56    B−K = 2.43    M_V = −27.19

No spectrum

PKS 0229–398, z=1.646

Other name: --
Classification: merger
Galactic E(B–V) = 0.019 mag; A_S = 0.082 mag
B = 19.74    B−K = 2.23    M_V = −23.14

No polarization measurements
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
$B = 15.73$ $B-K = 1.45$ $M_v = -26.81$

No spectrum

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
$B = 18.33$ $B-K = 3.16$ $M_v = -26.50$

No spectrum
PKS 0240–060, z=1.8

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

No spectrum

PKS 0537–441, z=0.893

Other name: --
Classification: stellar source, BL Lac (PG)
Galactic E(B–V) = 0.038 mag; A_B = 0.163 mag
B = 17.95  B–K = 4.91  M_V = −26.16

No polarization measurements
Fits to data

PKS 0829+046, z=0.18
Other names: OJ +049
Classification: stellar source, BL Lac (PG84)
Galactic E(B-V) = 0.033 mag, A_B = 0.141 mag
B = 16.26 B-K = 4.48 M_V = -23.92

PKS 0912+029, z=0.427
Other name: --
Classification: stellar source
Galactic E(B-V) = 0.035 mag, A_B = 0.152 mag
B = 18.75 B-K = 3.46 M_V = -22.65
PKS 1016–311, z=0.794

Other name: --
Classification: stellar source
Galactic E(B-V) = 0.056 mag; A_V = 0.241 mag
B = 16.52  B-K = 2.73  M_V = -24.53

PKS 1020–103, z=0.1966

Other name: DL –133
Classification: stellar source
Galactic E(B-V) = 0.046 mag; A_V = 0.200 mag
B = 17.10  B-K = 3.63  M_V = -22.96
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

PKS 1045–188, z=0.595

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
**Fits to data**

**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_B = −25.16**

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**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_B = −21.94**
PKS 1133−172, z=1.024

Other name: 0M -156
Classification: faint source
Galactic E(B-V) = 0.033 mag; A_V = 0.143 mag
B = 22.52   B-K = 5.69   M_V = -23.62

PKS 1136−135, z=0.5566

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

No polarization measurements

Best model: COMBINED
Best \chi^2/\nu = 2.665 (\nu=4)
Power law index = -1.70
\lambda_{\text{max}} (\text{sync}) = 0.58 \mu m
0.5 \mu m ratio = 36.42
0.5 \mu m fraction = 97.3%

Best model: POWER LAW
Best \chi^2/\nu = 0.451 (\nu=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_g = 0.375 mag
B = 17.42  B-K = 3.57  M_v = -25.43

PKS 1256–229, z=1.365

Other name: —
Classification: stellar source, radio BL (PG)
Galactic E(B-V) = 0.132 mag, A_g = 0.571 mag
B = 18.45  B-K = 4.99  M_v = -27.55
PKS 1313–333, z=1.21

Other name: OP −322
Classification: stellar source
Galactic E(B−V) = 0.062 mag; A_V = 0.296 mag
B = 18.17  B−K = 4.48  M_V = −26.61

PKS 1404–342, z=1.122

Other name: --
Classification: stellar source
Galactic E(B−V) = 0.066 mag; A_V = 0.287 mag
B = 17.87  B−K = 2.80  M_V = −26.73
PKS 1430–155, z=1.573

Other name: 00 -150.2
Classification: faint source
Galactic E(B-V) = 0.142 mag, \( A_B = 0.616 \) mag
B > 22.70 \( B-K > 5.20 \) \( M_V = -25.30 \)

PKS 1430–178, z=2.326

Other name: 00 -151
Classification: stellar source
Galactic E(B-V) = 0.075 mag, \( A_B = 0.324 \) mag
B = 19.14 \( B-K = 3.45 \) \( M_V = -26.35 \)
PKS 1435–218, z=1.187

Other name: 00 -259
Classification: stellar source
Galactic E(B-V) = 0.085 mag; A_b = 0.366 mag
B = 19.20 B-K = 2.43 M_B = -25.63

PKS 1437–153, no redshift

Other name: 00 -162
Classification: stellar source, BL Lac (Vv)
Galactic E(B-V) = 0.127 mag; A_b = 0.550 mag
B = 19.94 B-K = 3.70

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

No spectrum

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

No spectrum
PKS 1454–060, z=1.249

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

No polarization measurements

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

PKS 1504–166, z=0.876

Other name: 3C 102/107
Classification: merger
Galactic E(B−V) = 0.093 mag; A_B = 0.411 mag
B = 20.28  B−K = 6.27  M_V = −23.69

No spectrum

Best model: COMBINED
Best \chi^2/\nu = 3.219 (\nu=4)
Power law index = −1.70
\lambda_{\text{max}} (\text{synch.}) = 1.39 \mu m
0.5 \mu m ratio = 2.71
0.5 \mu m 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_B = -26.79

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_B = -23.85

Best model: COMBINED
Best $\chi^2$/d.o.f. = 1.278 (d=4)
Power law index = -1.70
$\lambda_{\text{peak}}$ (synch.) = 1.21 $\mu$m
0.5 $\mu$m ratio = 0.26
0.5 $\mu$m fraction = 20.8%
PKS 1511-100, z=1.513

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_B = -26.43

PKS 1511-210, z=1.179

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_B = -23.05
PKS 1514–241, z=0.0486
Other name: AP Librae
Classification: galaxy, BL Lac (PG817)
Galactic E(B-V) = 0.138 mag, B = 0.597 mag
B = 15.18 B-K = 4.68 M_y = -22.02

PKS 1519–273, no redshift
Other name: --
Classification: stellar source, BL Lac (PG817)
Galactic E(B-V) = 0.238 mag, B = 1.029 mag
B = 18.21 B-K = 4.13
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

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
PKS 1550–269, z=2.145

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

No spectrum

PKS 1555+001, z=1.77

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

No spectrum
PKS 1556–245, z=2.818

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

PKS 1602–001, z=1.624

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
PKS 1635-035, z=2.856

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

PKS 1654-020, z = 2

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
PKS 1705+018, z=2.576

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

PKS 1706+006, z=0.449

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

Fits to data
PKS 1725+044, z=0.296

Other name: --
Classification: merger
Galactic E(B-V) = 0.143 mag; A_B = 0.616 mag
B = 17.92 \quad B-K = 3.79 \quad M_B = -23.21

PKS 1933-400, z=0.965

Other name: --
Classification: stellar source
Galactic E(B-V) = 0.148 mag; A_B = 0.641 mag
B = 18.46 \quad B-K = 3.46 \quad M_B = -25.17
PKS 2004–447, z=0.24
Other name: ---
Classification: stellar source
Galactic E(B-V) = 0.054 mag, A_g = 0.146 mag
B = 19.52
B-K = 4.82
Mv = -21.60

PKS 2008–159, z=1.178
Other name: OIV -115
Classification: stellar source
Galactic E(B-V) = 0.142 mag, A_g = 0.614 mag
B = 17.50
B-K = 2.53
Mv = -26.74
PKS 2059+034, z=1.012
Other name: OW 4098
Classification: stellar source
Galactic E(B-V) = 0.104 mag, A_B = 0.448 mag
B = 16.09 B-K = 2.46 M_V = -25.52

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

PKS 2120+099, z=0.932

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_B = -24.08

PKS 2121+053, z=1.941

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_B = -26.98
PKS 2135–246, z=0.821

Other name: --
Classification: stellar source
Galactic E(B−V) = 0.002 mag, A_B = 0.224 mag
B = 19.64  B−K = 3.75  M_v = -23.73

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 polarization measurements

Best model: POWER LAW
Best $\chi^2$/$\nu = 1.041$ (n=5)
Power law index: $-1.60$
No synchrotron component

PKS 2143+156, z=0.698

Other name: 0X -173
Classification: stellar source
Galactic E(B-V) = 0.098 mag; $A_B = 0.422$ mag
$B = 18.02$  $B-K = 2.78$  $M_B = -24.64$

No spectrum

PKS 2144+092, z=1.113

Other name: 0X +074
Classification: stellar source
Galactic E(B-V) = 0.072 mag; $A_B = 0.311$ mag
$B = 18.78$  $B-K = 3.96$  $M_B = -25.25$
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_B = −26.17

PKS 2145+067, z=0.99

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_B = −27.28

No spectrum
PKS 2149–307, z=2.345

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

PKS 2149+056, z=0.74

Other name: DX +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

No spectrum
PKS 2149+069, z=1.364
Other name: OJ 461
Classification: stellar source
Galactic E(B-V) = 0.002 mag, A_B = 0.226 mag
B = 16.79    B-K = 3.03    M_v = -25.62

No spectrum

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

No spectrum
PKS 2212−299, z=2.703

Other name: 0V−221
Classification: stellar source
Galactic E(B−V) = 0.015 mag; A_v = 0.064 mag
B = 17.47  B−K = 2.68  M_v = −27.61

PKS 2216−038, z=0.901

Other name: 4C−03.79
Classification: stellar source
Galactic E(B−V) = 0.095 mag; A_v = 0.410 mag
B = 17.65  B−K = 3.07  M_v = −26.72

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
No spectrum

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
No spectrum
PKS 2227-399, z=0.323

Other name: --
Classification: stellar source
Galactic E(B-V) = 0.018 mag; A_B = 0.077 mag
B = 17.94   B-K = 3.63   M_B = -23.02

No spectrum

PKS 2229-172, z=1.78

Other name: Dy -150
Classification: faint source
Galactic E(B-V) = 0.035 mag; A_B = 0.152 mag
B = 21.26   B-K = 4.49   M_B = -24.04

No polarization measurements
PKS 2233−146, z>0.609

Other name: QY−156
Classification: stellar source, Cont. BL (PGb/V)
Galactic E(B−V) = 0.043 mag, A_B = 0.186 mag
B = 19.24  B−K = 4.67  M_V = −24.14

PKS 2239+096, z=1.707

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

No spectrum
PKS 2240−260, z=0.774

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

No spectrum

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

No spectrum
Fits to data

PKS 2245-326, 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

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
PKS 2312–319, z=1.323

Other name: --
Classification: stellar source
Galactic E(B–V) = 0.016 mag; A_B = 0.059 mag
B = 18.10   B–K = 2.47   M_B = −26.08

PKS 2313–438, z=1.847

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_B = −25.62
PKS 2314-409, z=2.448

Other name: --
Classification: stellar source
Galactic E(B-V) = 0.015 mag, A_B = 0.067 mag
B = 16.33 B-K = 2.74 M_V = -27.23

No spectrum

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
PKS 2345–167, z=0.576
Other name: 0Z 176
Classification: stellar source
Galactic E(B-V) = 0.026 mag; A_B = 0.112 mag
B = 17.23  B-K = 4.47  M_B = -25.40

No spectrum

PKS 2351–154, z=2.675
Other name: 0Z 187
Classification: stellar source
Galactic E(B-V) = 0.034 mag; A_B = 0.145 mag
B = 16.97  B-K = 2.60  M_B = -26.12

No polarization measurements
PKS 2354-117, z=0.96

Other name: --
Classification: stellar source
Galactic: E(B-V) = 0.032 mag; A_V = 0.136 mag
B = 18.81   B-K = 3.75   M_V = -25.41

No spectrum
PKS 0118–272, z>0.556
Other name: 0C –230.4
Classification: stellar source, BL Lac (PEC/YS)
Galactic E(B–V) = 0.014 mag; A_V = 0.029 mag
B = 16.59  B-K = 4.48  M_V = 25.77

PKS 0454+066, z=0.405
Other name: 4C +06.21
Classification: stellar source
Galactic E(B–V) = 0.081 mag; A_V = 0.349 mag
B = 19.38  B-K = 4.96  M_V = 22.68
Fits to data

PKS 0048–097, no redshift
Other name: PHL 0836
Classification: stellar source, BL Lac (PG84)
Galactic E(B–V) = 0.032 mag, A_B = 0.139 mag
B = 16.12 B–K = 3.61

PKS 1110–217, no redshift
Other name: GM 218
Classification: faint source
Galactic E(B–V) = 0.041 mag, A_B = 0.179 mag
B = 24.41 B–K = 7.67
PKS 1156-094, no redshift

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

Other name: --
Classification: faint source
Galactic E(B-V) = 0.076 mag; A_B = 0.327 mag
B = 21.67  B-K = 5.31
fits to data

PKS 1732-404, no redshift

Other names: OT-1054
Classification: faint source
Galactic E(B-V) = 0.161 mag, A_B = 0.697 mag
B > 23.50 B-K > 7.13

No polarization measurements

Best model: POWER LAW
Best $\chi^2$/d.o.f. = 21.856 (d.o.f. = 5)
Power law index = -0.39
No synchrotron component

PKS 2056-369, no redshift

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

No polarization measurements

Best model: POWER LAW
Best $\chi^2$/d.o.f. = 1.346 (d.o.f. = 4)
Power law index = 0.59
No synchrotron component
PKS 2245+029, no redshift

Other name: --
Classification: stellar source
Galactic E(B-V) = 0.057 mag; A_B = 0.246 mag
B = 21.71   B-K = 6.22

No spectrum

PKS 2337–334, no redshift

Other name: --
Classification: faint source
Galactic E(B-V) = 0.013 mag; A_B = 0.055 mag
B = 22.95   B-K = 6.54

No spectrum
PKS 2344–192, no redshift

Other name: OZ – 174
Classification: faint source
Galactic: E(B–V) = 0.022 mag, A_b = 0.095 mag
B = 23.32  B–K = 6.27

No polarization measurements

No spectrum