

MPIfR Correlator Status Report

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MPIfR Status Report

- ◆ MPIfR has been running correlators for many years (MarkII, MarkIII, MarkIV)
- ◆ Correlator is utilized
 - 50% for astronomy
 - 50% for geodesy

MPIfR Status Report

Decision to use DiFX as a replacement for the MarkIV correlator was made 2007/2008

Compute Cluster was purchased in 2008

60 Compute Nodes (dual quadcore)

80 TB Storage

fast Infiniband interconnect

MPIfR Status Report

Final switch to DiFX for *astronomy* experiments in 2009

thanks to Walter B. and Adam!

Final switch for *geodesy* experiments **now**.

missing pieces (phasecal extraction & path to mark4 post correlation software) now available

geodesists happy with verification (?)

MPIfR Status Report

Switch off hardware correlator before the end of 2010

Current activities:

- migrate operations to the NRAO system
 - native mark5 mode (requires 32-bit mpifxcorr)
- Adapt DifX Operator Interface for general use.

MPIfR Status Report

- Post Correlation data inspection

The screenshot shows a window titled 'tk_pclist' with a search bar and a table of data. The table has columns for 'No', 'Source', 'Mode', and a grid of correlation values for various modes (EF, NT, WB, TR, JB, CM, KN, ON, MC, YS, UR, SH). The correlation values are represented by colored cells: red for 0-10%, orange for 10-20%, yellow for 20-30%, green for 30-40%, and dark green for 40-50%. A legend at the bottom of the window shows the color scale for the correlation percentages.

No	Source	Mode	EF	NT	WB	TR	JB	CM	KN	ON	MC	YS	UR	SH				
No0008	J1404.2+3413	em077b.6cm	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red				
No0009	J1406.9+3433	em077b.6cm	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red				
No0010	J1423.3+4830	em077b.6cm	Green	Red	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0011	J1427.9+3247	em077b.6cm	Green	Red	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0012	J1442.3+5236	em077b.6cm	Green	Red	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0013	J1229.5+2711	em077b.6cm	Green	Red	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0014	J1231.7+2848	em077b.6cm	Green	Red	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0015	J1315.1+2841	em077b.6cm	Green	Red	20	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0016	J1329.0+5009	em077b.6cm	Green	Red	30	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0017	J1332.7+4722	em077b.6cm	Green	Red	40	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0018	J1359.6+4010	em077b.6cm	Green	Red	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0019	J1404.2+3413	em077b.6cm	Green	Red	60	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0020	J1406.9+3433	em077b.6cm	Green	Red	50	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0021	J1423.3+4830	em077b.6cm	Green	Red	80	Green	Green	Green	Green	Green	Green	Red	Green	Green				
No0022	J1427.9+3247	em077b.6cm	Green	Red	70	Green	Green	Green	Green	Green	Green	Red	Green	Green				