

F191B (2 Gbps fringe-test) Correlation Report

General information

- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr19/feedback_apr19.asc

Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	Yes	f191b No0002 3C84 BP LL.pdf , f191b No0002 3C84 BP LR.pdf , no RL fringe, f191b No0002 3C84 BP RR.pdf f191b No0002 3C84 BX LL.pdf , f191b No0002 3C84 BX LR.pdf , f191b No0002 3C84 BX RL.pdf , f191b No0002 3C84 BX RR.pdf f191b No0002 3C84 BY LL.pdf , no LR fringe, f191b No0002 3C84 BY RL.pdf , f191b No0002 3C84 BY RR.pdf f191b No0002 3C84 BZ LL.pdf , f191b No0002 3C84 BZ LR.pdf , f191b No0002 3C84 BZ RL.pdf , f191b No0002 3C84 BZ RR.pdf f191b No0002 3C84 Bi LL.pdf , f191b No0002 3C84 Bi LR.pdf , no RL fringe, f191b No0002 3C84 Bi RR.pdf	bad weather: thick clouds and light rain
On	X	Yes	f191b No0002 3C84 BX LL.pdf , f191b No0002 3C84 BX LR.pdf , f191b No0002 3C84 BX RL.pdf , f191b No0002 3C84 BX RR.pdf f191b No0002 3C84 XP LL.pdf , no LR fringe, f191b No0002 3C84 XP RL.pdf , f191b No0002 3C84 XP RR.pdf f191b No0002 3C84 XY LL.pdf , f191b No0002 3C84 XY LR.pdf , f191b No0002 3C84 XY RL.pdf , f191b No0002 3C84 XY RR.pdf f191b No0002 3C84 ZX LL.pdf , f191b No0002 3C84 ZX LR.pdf , f191b No0002 3C84 ZX RL.pdf , f191b No0002 3C84 ZX RR.pdf f191b No0002 3C84 Xi LL.pdf , f191b No0002 3C84 Xi LR.pdf , no RL fringe, f191b No0002 3C84 Xi RR.pdf	blue sky, tau ~0.3 and Tsys*~230K
Ys	Y	Yes	f191b No0002 3C84 BY LL.pdf , no LR fringe, f191b No0002 3C84 BY RL.pdf , f191b No0002 3C84 BY RR.pdf f191b No0002 3C84 PY LL.pdf , f191b No0002 3C84 PY LR.pdf , f191b No0002 3C84 PY RL.pdf , f191b No0002 3C84 PY RR.pdf f191b No0002 3C84 XY LL.pdf , f191b No0002 3C84 XY LR.pdf , f191b No0002 3C84 XY RL.pdf , f191b No0002 3C84 XY RR.pdf	sunny with light clouds

Station	Code	Fringes	Plots	Comments
			f191b No0002 3C84 ZY LL.pdf , no LR fringe, f191b No0002 3C84 ZY RL.pdf , f191b No0002 3C84 ZY RR.pdf f191b No0002 3C84 iY LL.pdf , no LR fringe, f191b No0002 3C84 iY RL.pdf , f191b No0002 3C84 iY RR.pdf	
Mh	Z	Yes	f191b No0002 3C84 BZ LL.pdf , f191b No0002 3C84 BZ LR.pdf , f191b No0002 3C84 BZ RL.pdf , f191b No0002 3C84 BZ RR.pdf f191b No0002 3C84 ZP LL.pdf , no LR fringe, f191b No0002 3C84 ZP RL.pdf , f191b No0002 3C84 ZP RR.pdf f191b No0002 3C84 ZX LL.pdf , f191b No0002 3C84 ZX LR.pdf , f191b No0002 3C84 ZX RL.pdf , f191b No0002 3C84 ZX RR.pdf f191b No0002 3C84 ZY LL.pdf , no LR fringe, f191b No0002 3C84 ZY RL.pdf , f191b No0002 3C84 ZY RR.pdf f191b No0002 3C84 Zi LL.pdf , f191b No0002 3C84 Zi RR.pdf , no LR or RL fringes	nice weather
Pv	P	Yes	f191b No0002 3C84 BP LL.pdf , f191b No0002 3C84 BP LR.pdf , no RL fringe, f191b No0002 3C84 BP RR.pdf f191b No0002 3C84 XP LL.pdf , no LR fringe, f191b No0002 3C84 XP RL.pdf , f191b No0002 3C84 XP RR.pdf f191b No0002 3C84 PY LL.pdf , f191b No0002 3C84 PY LR.pdf , f191b No0002 3C84 PY RL.pdf , f191b No0002 3C84 PY RR.pdf f191b No0002 3C84 ZP LL.pdf , no LR fringe, f191b No0002 3C84 ZP RL.pdf , f191b No0002 3C84 ZP RR.pdf f191b No0002 3C84 iP LL.pdf , f191b No0002 3C84 iP LR.pdf , f191b No0002 3C84 iP RL.pdf , f191b No0002 3C84 iP RR.pdf	Pico Veleta with DBBC2 good weather, Tau225=0.24, but worsened towards the end of the observations, some thick clouds preventing pointing. Scan No0002 is probably the best.
P3	i	Yes	f191b No0002 3C84 Bi LL.pdf , f191b No0002 3C84 Bi LR.pdf , no RL fringe, f191b No0002 3C84 Bi RR.pdf f191b No0002 3C84 iP LL.pdf , f191b No0002 3C84 iP LR.pdf , f191b No0002 3C84 iP RL.pdf , f191b No0002 3C84 iP RR.pdf	Pico Veleta with DBBC3

Station	Code	Fringes	Plots	Comments
			<p>f191b No0002 3C84 Xi LL.pdf, f191b No0002 3C84 Xi LR.pdf, no RL fringe, f191b No0002 3C84 Xi RR.pdf</p> <p>f191b No0002 3C84 iY LL.pdf, no LR fringe, f191b No0002 3C84 iY RL.pdf, f191b No0002 3C84 iY RR.pdf</p> <p>f191b No0002 3C84 Zi LL.pdf, f191b No0002 3C84 Zi RR.pdf, no LR or RL fringes</p>	
Na	N	Yes	<p>f191b No0002 3C84 BN L-IF0.pdf, f191b No0002 3C84 BN L-IF1.pdf, f191b No0002 3C84 BN R-IF0.pdf, f191b No0002 3C84 BN R-IF1.pdf</p> <p>f191b No0002 3C84 NP IF0-L.pdf, f191b No0002 3C84 NP IF0-R.pdf, f191b No0002 3C84 NP IF1-L.pdf, f191b No0002 3C84 NP IF1-R.pdf</p> <p>f191b No0002 3C84 NX IF0-L.pdf, f191b No0002 3C84 NX IF0-R.pdf, f191b No0002 3C84 NX IF1-L.pdf, f191b No0002 3C84 NX IF1-R.pdf</p> <p>f191b No0002 3C84 NY IF0-L.pdf, f191b No0002 3C84 NY IF0-R.pdf, f191b No0002 3C84 NY IF1-L.pdf, f191b No0002 3C84 NY IF1-R.pdf</p> <p>f191b No0002 3C84 ZN L-IF0.pdf, f191b No0002 3C84 ZN L-IF1.pdf, f191b No0002 3C84 ZN R-IF0.pdf, f191b No0002 3C84 ZN R-IF1.pdf</p> <p>-----</p> <p>Fringes to Na in scans No0001 and No0003-6 in a single file: Na fringes.pdf</p>	<p>The first GMVA fringes to NOEMA after its upgrade. Single-dish setup, R2DBE, not NOEMA correlator output.</p> <p>In scan 2 two polarizations are IF0 and IF1, both correlated as "RCP" (and so both designated as R in the plots, be careful if printing or copying these!) for technical reasons. Because apparently the quarter-wave plate was inserted incorrectly, neither really represents RCP or LCP, as</p>

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				<p>can be seen from similar SNR in correlations to LCP and RCP of other stations. The real polarization must be unknown elliptical or linear.</p> <p>In scans 1 and 3-6 "LCP" is IF0 and "RCP" is IF1. The polarization behavior is similar in all scans, SNR is approximately the same for LL, LR, RL, and RR.</p>

Notes

PV has done parallel recording with the DBBC2 backend (PV) and the DBBC3 backend (P3). However the setup of the DBBC3 has been kept from the f191a test (4Gbps test) carried out just before f191b. Since f191a was done in DDC mode the subbands are shifted by 16MHz with respect to the DBBC2 PFB bands (for details of the DBBC3 setup see the 4Gbps page).

This means that 16MHz zoom bands have to be used when correlating with P3.

For the following GMVA session the setup has been changed to match the DBBC3 subbands with the PFB subbands.