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
			f191b_No0002_3C84_Xi_LL.pdf, f191b_No0002_3C84_Xi_LR.pdf, no RL fringe, f191b_No0002_3C84_Xi_RR.pdf f191b_No0002_3C84_iY_LL.pdf, no LR fringe, f191b_No0002_3C84_iY_RL.pdf, f191b_No0002_3C84_iY_RR.pdf f191b_No0002_3C84_Zi_LL.pdf, f191b_No0002_3C84_Zi_RR.pdf, no LR or RL fringes	
Na	N	**Yes**	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 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 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 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 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 _____ Fringes to Na in scans No0001 and No0003-6 in a single file: Na_fringes.pdf	The first GMVA fringes to NOEMA after its upgrade. Single-dish setup, R2DBE, not NOEMA correlator output. 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

Station	Code	Fringes	Plots	Comments
				can be seen from similar SNR in correlations to LCP and RCP of other stations. The real polarization must be unknown elliptical or linear. 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.

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) cariied 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.