F202A 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/oct20/feedback_oct20.asc

Two frequency modes were tested in this experiment. The first 6 scans utilized a special 88 GHz frequency setup since it is used in one of the experiments in this session. Starting from the scan 7 normal 3mm 86GHz frequency setup was used.

Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	yes	88 GHz: f202a_No0003_3C345_BX_LL.pdf f202a_No0003_3C345_BX_RR.pdf f202a_No0003_3C345_BZ_RR.pdf 86 GHz: to On: f202a_No0007_3C345_BX_LL.pdf f202a_No0007_3C345_BX_RR.pdf f202a_No0008_3C345_BX_LL.pdf f202a_No0008_3C345_BX_LR.pdf f202a_No0008_3C345_BX_RR.pdf to Ys: f202a_No0007_3C345_BY_LL.pdf f202a_No0007_3C345_BY_LR.pdf f202a_No0007_3C345_BY_RL.pdf f202a_No0007_3C345_BY_RR.pdf f202a_No0008_3C345_BY_LL.pdf f202a_No0008_3C345_BY_LR.pdf f202a_No0008_3C345_BY_RL.pdf f202a_No0008_3C345_BY_RR.pdf to Mh:	Windy and cloudy. Strong wind gusts are a problem for the pointing,

Station	Code	Fringes	Plots	Comments
			f202a_No0007_3C345_BZ_LL.pdf f202a_No0007_3C345_BZ_LR.pdf f202a_No0007_3C345_BZ_RL.pdf f202a_No0007_3C345_BZ_RR.pdf f202a_No0008_3C345_BZ_LL.pdf f202a_No0008_3C345_BZ_LR.pdf f202a_No0008_3C345_BZ_RL.pdf f202a_No0008_3C345_BZ_RR.pdf	
On	X	**yes**	88 GHz: f202a_No0003_3C345_BX_LL.pdf f202a_No0003_3C345_BX_RR.pdf 86 GHz: to Ef: f202a_No0007_3C345_BX_LL.pdf f202a_No0007_3C345_BX_RR.pdf f202a_No0008_3C345_BX_LL.pdf f202a_No0008_3C345_BX_LR.pdf f202a_No0008_3C345_BX_RR.pdf to Ys: f202a_No0007_3C345_XY_LL.pdf f202a_No0007_3C345_XY_LR.pdf f202a_No0007_3C345_XY_RL.pdf f202a_No0007_3C345_XY_RR.pdf f202a_No0008_3C345_XY_LL.pdf f202a_No0008_3C345_XY_LR.pdf f202a_No0008_3C345_XY_RL.pdf f202a_No0008_3C345_XY_RR.pdf	Cloudy. Tsys* ~ 280 K. The dedicated 3mm receiver is offline due to some problems, instead used 4mm receiver that covers up to 89GHz. It takes ~4 min for it to change LO. Some problems were expected due to this, but the fringe test seems OK.

Station	Code	Fringes	Plots	Comments
			to Mh: f202a_No0007_3C345_ZX_LL.pdf f202a_No0007_3C345_ZX_RR.pdf f202a_No0008_3C345_ZX_LL.pdf f202a_No0008_3C345_ZX_LR.pdf f202a_No0008_3C345_ZX_RR.pdf	
Ys	Y	**yes**	No 88 GHz. 86 GHz: to Ef: f202a_No0007_3C345_BY_LL.pdf f202a_No0007_3C345_BY_LR.pdf f202a_No0007_3C345_BY_RL.pdf f202a_No0007_3C345_BY_RR.pdf f202a_No0008_3C345_BY_LL.pdf f202a_No0008_3C345_BY_LR.pdf f202a_No0008_3C345_BY_RL.pdf f202a_No0008_3C345_BY_RR.pdf to On: f202a_No0007_3C345_XY_LL.pdf f202a_No0007_3C345_XY_LR.pdf f202a_No0007_3C345_XY_RL.pdf f202a_No0007_3C345_XY_RR.pdf f202a_No0008_3C345_XY_LL.pdf f202a_No0008_3C345_XY_LR.pdf f202a_No0008_3C345_XY_RL.pdf f202a_No0008_3C345_XY_RR.pdf to Mh:	Very low power from the receiver in the 88 GHz part. Tsys calibration was not working properly. No fringes in 88 GHz part. In 86 GHz part fringes of the same strength in cross pols as in parallel pols, i. e. apparent linear polarization. Reason was quickly found, quarter-wave plates not installed. Fixed before the science part of the session.

Station	Code	Fringes	Plots	Comments
			f202a_No0007_3C345_ZY_LL.pdf f202a_No0007_3C345_ZY_LR.pdf f202a_No0007_3C345_ZY_RL.pdf f202a_No0007_3C345_ZY_RR.pdf f202a_No0008_3C345_ZY_LL.pdf f202a_No0008_3C345_ZY_LR.pdf f202a_No0008_3C345_ZY_RL.pdf f202a_No0008_3C345_ZY_RR.pdf	
Mh	Z	**yes**	88 GHz f202a_No0003_3C345_BZ_RR.pdf 86 GHz: to Ef: f202a_No0007_3C345_BZ_LL.pdf f202a_No0007_3C345_BZ_LR.pdf f202a_No0007_3C345_BZ_RL.pdf f202a_No0007_3C345_BZ_RR.pdf f202a_No0008_3C345_BZ_LL.pdf f202a_No0008_3C345_BZ_LR.pdf f202a_No0008_3C345_BZ_RL.pdf f202a_No0008_3C345_BZ_RR.pdf to On: f202a_No0007_3C345_ZX_LL.pdf f202a_No0007_3C345_ZX_RR.pdf f202a_No0008_3C345_ZX_LL.pdf f202a_No0008_3C345_ZX_LR.pdf f202a_No0008_3C345_ZX_RR.pdf to Ys:	Cloudy.

Station	Code	Fringes	Plots	Comments
			f202a_No0007_3C345_ZY_LL.pdf f202a_No0007_3C345_ZY_LR.pdf f202a_No0007_3C345_ZY_RL.pdf f202a_No0007_3C345_ZY_RR.pdf f202a_No0008_3C345_ZY_LL.pdf f202a_No0008_3C345_ZY_LR.pdf f202a_No0008_3C345_ZY_RL.pdf f202a_No0008_3C345_ZY_RR.pdf	
Pv	P	**yes**	86 GHz, a scan from c202a: c202a_No0018_BLLAC_BP_LL.pdf c202a_No0018_BLLAC_BP_RR.pdf ----------	Clear sky, but very unstable atmosphere. No fringes found in the whole f202a. The reason was apparently the wrongly set clock, possibly for one second, although correlations with +/-1 sec offsets also did not produce fringes, After the clock reset data from a c202a scan were transferred to confirm EfPv fringes, and they were successfully found, see plots.

Notes