

D131: e-VLBI test observations, Metsähovi 5-March-2007

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On 05-Mar-2007 Metsähovi Radio Observatory took part for the first time in e-VLBI observations correlated in real-time at the JIVE correlator. This participation completes the tests of the 10Gbps network connectivity installed in EXPReS SA2 (DoW: 2.15). The details of the tests are described in the email message by experiment PI Zsolt Paragi, below. Accompanying fringe plots are shown in Figure 1.

Date: Mon, 05 Mar 2007 13:01:51 +0100 (CET)
From: Zsolt Paragi <zparagi@jive.nl>
To: EVNtech <EVNtech@jb.man.ac.uk>
Subject: EVNtech: First K-band e-EVN, first e-VLBI fringes to Mh
Hi,

Today we had an e-VLBI fringe test in K-band, prior to the F07K1 ftp test. The participating telescopes were Cm, Jb2, Mc, Mh, and On60. The data rate was 256 Mbps. This was our first e-VLBI test at 1.cm, and the first one with Metsahovi.

The test was a complete success, with fringes to all telescopes (see attached plot; note that Cm bandwidth is limited to 128 Mbps because of the microwave link). On-sala had a new dualpol K-band receiver which performed very well. The Jb and Cm sensitivities may have been a bit worse than expected, likely due to the windy weather or pointing.

Regards,
Zsolt

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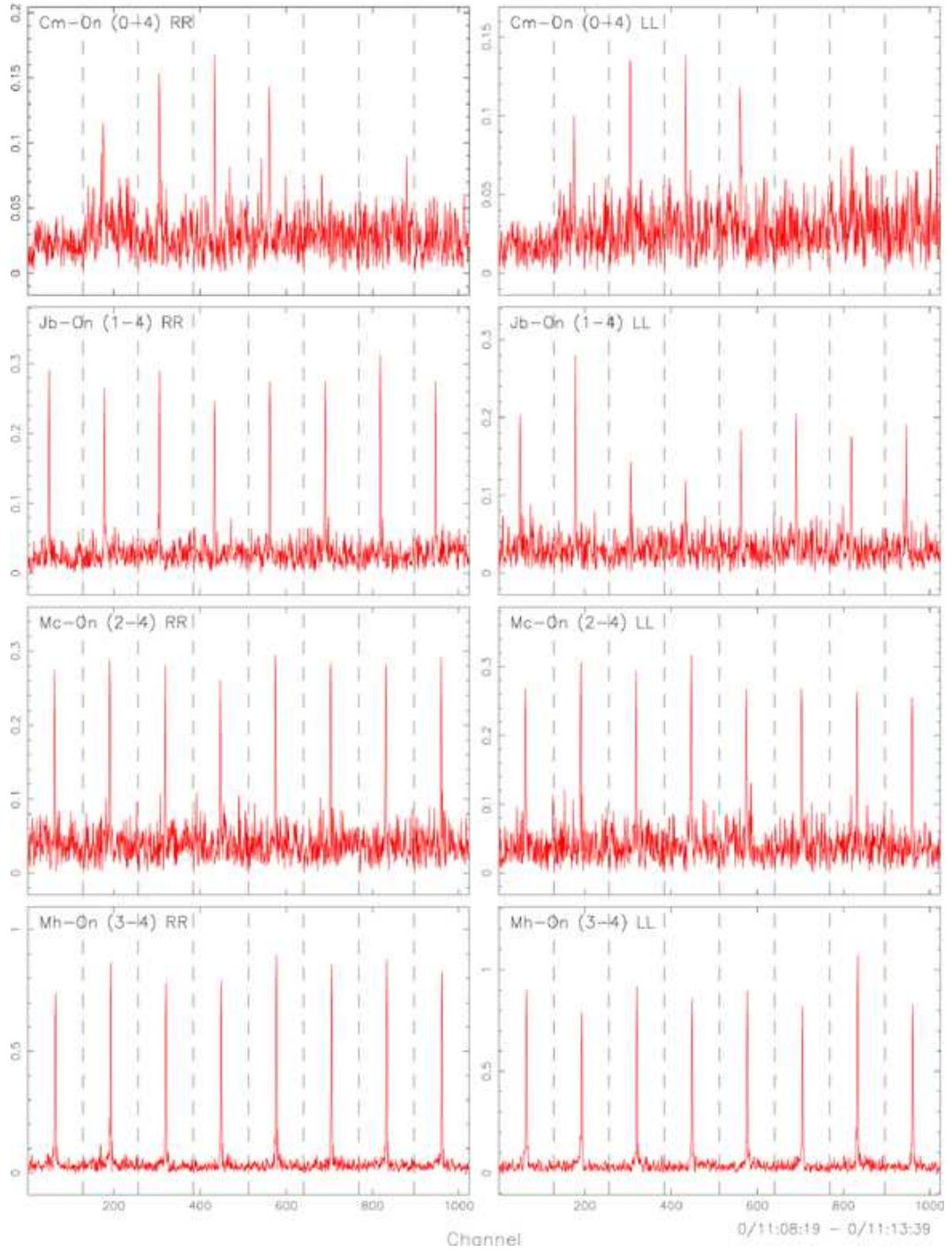


Figure 1: First K-band e-EVN measurement.