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A Technical Overview of the EVN

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As chair of the Technical and Operations Group (TOG) of the European VLBI Network (EVN) I would like to present an overview of the technical aspects of the EVN. I will explain which institutes and telescopes constitute the EVN, and their main characteristics and observation frequencies. The scheduling process together with fringe tests, network monitor experiments, standard observations, e-VLBI observations and target of opportunity observations will be described. The EVN signed a MoU with JIVE and as result activities from both sides are deeply interleaved. I will present some of these activities with relevant impact in the EVN. I will also describe the calibration control process. Finally technical developments in the last year, including 2 Gbps recording in DDC mode, 2 Gbps recording in VDIF format supported by the FS for Mark5C, Mark6 and Flexbuff and the works to get PFB mode will also be presented together with the tests performed. These developments are the result of collaboration works from different parties in the EVN and also NVI Inc with which the EVN signed a contract.

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