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Beam based alignment tests at the Cooler Synchrotron (COSY)

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The Jülich Electric Dipole moment Investigation (JEDI) Collaboration works on a measurement of the electric dipole moment (EDM) of charged hadrons using a storage ring. Such a dipole moment would violate CP symmetry, providing a test for physics beyond the Standard Model. The JEDI experiment requires a small beam orbit RMS in order to control systematic uncertainties.

Therefore an ongoing upgrade of the Cooler Synchrotron (COSY) is done in order to improve the precision of the beam position. This poster will present the first results of the beam based alignment method that was tested with one quadrupole in the ring.

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