

Contribution submission to the conference München 2019

Electrostatic deflector development — •CHRISTIAN KÄSEBERG^{1,2}, ANDREAS LEHRACH^{1,2}, and KIRILL GRIGORYEV¹ for the JEDI-Collaboration — ¹Institute for Nuclear Physics IV , FZ Jülich, Germany — ²III. Physikalisches Institut B, RWTH Aachen University, Germany

The direct measurement of the proton or deuteron Electric Dipole Moment (EDM) has never been performed before. These experiments can be done at electrostatic storage ring. As a starting point the magnetic storage ring COSY at Forschungszentrum Jülich can be used. It will require implementation of the electrostatic or electromagnetic beam-bending elements. For testing the electrodes' material, shape, surface treatment and high voltage, a real size large deflector is developed and will be checked in a magnetic field of a large-gap dipole magnet. The experimental setup and the laboratory test results will be presented.

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