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Electrostatic deflector development for JEDI collaboration

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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 1m large deflector is developed and will be checked in a magnetic field of a large-gap dipole magnet. The experimental setup and laboratory tests will be presented.

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