

Electrostatic deflector development for JEDI

Kirill Grigoryev

III. Physikalisches Institut B, RWTH Aachen University, Germany

The direct measurement of the proton or deuteron electric dipole moment has never been performed before. These experiments can be done at storage rings. As a starting point for a first measurement, the pure magnetic storage ring COSY at Forschungszentrum Jülich can be used. A dedicated storage ring will require electrostatic elements. For testing the electrode material, shape, surface treatment and high voltage tests, a new laboratory was set up at Aachen University. The Aachen laboratory, experimental setup and first tests will be presented.