

ExtreMe Matter Institute EMMI

EMMI Collaboration Meeting

Towards a Vacuum Birefringence Experiment at the Helmholtz International Beamline for Extreme Fields

Jena, Germany, October 26 - 28, 2023



The recent inauguration of the Helmholtz International Beamline for Extreme Fields – a worldwide unique combination of an XFEL and an intense laser – at the European XFEL, advances in high-precision x-ray polarimetry, refinements of prospective discovery scenarios and progress in their accurate theoretical modeling have set the stage for performing an actual discovery experiment right now. The goal of this EMMI Collaboration Meeting is to reach agreement on the most promising experimental setup and to work out a roadmap towards the first detection of this effect in a concerted effort of theory and experiment.

Website:

indico.gsi.de/event/18132

Information:

www.gsi.de/emmi/workshops

More about EMMI:

www.gsi.de/emmi