Contribution ID: **97** Type: **Poster**

JETi200 upgrade and LWFA experiments at HI Jena

The JETi200 laser system at the Helmholtz-Institute Jena has a peak power of 200 TW. Its short pulse duration down to 17 fs makes it unique in the world. The laser is now in full operation and experiments on the topic of Surface High Harmonic Generation and Laser Wakefield Acceleration have been undertaken. After an upgrade, the laser pulse energy was increased to >5 J after compression. New grating mounts in the pulse compressor allow complete control of the angular chirp now. First results on LWFA experiments after the upgrade will presented.

Primary author: SÄVERT, Alexander (FSU Jena)

Co-authors: Mr SEIDEL, Andreas (Friedrich-Schiller-University of Jena); BELEITES, Burgard (FSU Jena); Mrs ZEPTER, Carola (FSU Jena, IOQ); RONNEBERGER, Falk (FSU Jena); SCHÄFER, Georg (Helmholtz-Institut Jena); ZEPF, Matt (HIJ)

Presenter: SÄVERT, Alexander (FSU Jena)

Track Classification: ARD