

46th International Workshop on High Energy Density Physics with Intense Ion and Laser Beams

Beitrag ID: 41

Typ: **Poster**

Active beamstabilization for JETi200 and TAF

Mittwoch, 28. Januar 2026 17:00 (1 h 30m)

A new target area is set up at the Helmholtz Institute Jena. One central aspect are combined experiments with the laser systems JETi200 and POLARIS. Additionally, a new dedicated probe laser system, JETi ONE, was installed giving the opportunity to investigate laser-plasma interactions with few-cycle laser pulse ranging from the visible to the mid infrared spectrum. In a first step, we synchronized the oscillators with a temporal jitter below 20 fs. Now, the spatial overlap with a precision below 3 μ rad is in focus. A combined approach using continuous online pointing measurement and predictive beam steering will be presented.

Autor: SÄVERT, Alexander (Helmholtz Institut Jena)

Vortragende(r): SÄVERT, Alexander (Helmholtz Institut Jena)

Sitzung Einordnung: Poster Session 2