

## 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  $\mu$ rad is in focus. A combined approach using continuous online pointing measurement and predictive beam steering will be presented.

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**Sitzung Einordnung:** Poster Session 2