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## **Study on a Superconducting Transverse Gradient Undulator for Laser Plasma Accelerator-Driven FELs**

The superconducting transverse gradient undulator (TGU) scheme is a viable option to compensate the challenging properties of the Laser Wakefield Acceleration (LWFA) electron beam to enable FELs amplification. A first cool-down and magnet powering test of the TGU were performed in a specially designed cryostat proving the basic operational capabilities of the system. Possible experiments with the TGU at the SINBAD facility, complementing the planned experiments at the LWFA at the JETI-Laser, Jena, are currently made a discussion.

**Primary author:** Mr DAMMINSEK, Kantaphon (Karlsruhe Institute of Technology)

**Co-authors:** MUELLER, Anke-Susanne (KIT); Dr BERNHARD, Axel (Karlsruhe Institute of Technology (KIT)); Dr BRUENDERMANN, Erik (KIT)

**Presenter:** Mr DAMMINSEK, Kantaphon (Karlsruhe Institute of Technology)

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