

High Gain Fusion Targets

Dienstag, 27. Januar 2026 10:30 (20 Minuten)

The purpose of the presentation is to introduce Marvel Fusion's high-gain fusion target philosophy. The company's high-gain target concept incorporates a novel fast-ignition element capable of delivering up to multiple megajoules of fast-ignition energy into dense fuel. In addition, the concept includes a mild compression element that can be validated at existing implosion facilities. Combined, these elements are designed to exceed the required fusion triple product for hotspot ignition and enable, in principle, unlimited fusion gain. The target design promises to be robust and simple.

Autor: Prof. RUHL, Hartmut (Marvel Fusion)

Vortragende(r): Prof. RUHL, Hartmut (Marvel Fusion)

Sitzung Einordnung: Session 5 - Inertial Confinement Fusion 2