

## **Constantin Häfner**

Fraunhofer ILT

Plenary Talk

### **Laser-driven Inertial Confinement Fusion – Technology and Potential**

In 2022 Laser-driven inertial confinement fusion achieved a groundbreaking scientific milestone: generating more energy from a laser-driven fusion reaction than delivered by the lasers to start it. This talk will give an overview over the latest results and the challenges on the way towards a fusion power plant. Successful realization will require a vivid fusion innovation eco system supported by political leadership, industry and institutional research.

### **About the Speaker**

Prof. Häfner is Managing Director of the Fraunhofer Institute for Laser Technology ILT since 2020, Full Professor & Chair of Laser Technology at RWTH Aachen, and former Director of the Advanced Photon Technologies Program, National Ignition Facility & Photon Science Directorate at Lawrence Livermore National Lab., US. He is a renowned expert in advanced high-energy laser science and technology, particularly in Inertial Confinement Fusion applications, where he has made pioneering contributions.