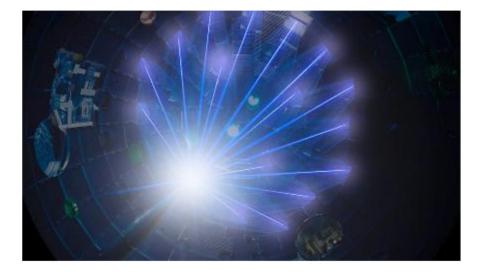
## UNIVERSITÄT DUISBURG ESSEN



## Physikalisches Kolloquium

Mittwoch, 22.05.2024 13:00 Uhr MC 122 und Zoom

Laser Fusion as a promising pathway to fusion energy Prof. Dr. Markus Roth Technische Universität Darmstadt Focused Energy GmbH



https://uni-due.zoom-x.de/j/64228670246?pwd=RjVQeFNIUkRKRkpiNVpKYXhJaFNLdz09

With the recent demonstration of fusion ignition and burn and the first energy gain from controlled fusion reactions, the laser-based fusion approach has become a promising concept for fusion energy. While not supported in Germany until a few years ago, Germany has a huge potential in taking the lead on laser-fusion research, based on its excellent science and technology in optics and lasers. Focused Energy is a US/German Startup company, spin-off the Technische Universität Darmstadt that has gathered the world experts in laser fusion in the last two years.

I will review the recent results at the Lawrence Livermore National Laboratory National Ignition Facility and sketch a pathway from this groundbreaking result to a first fusion reactor prototype.