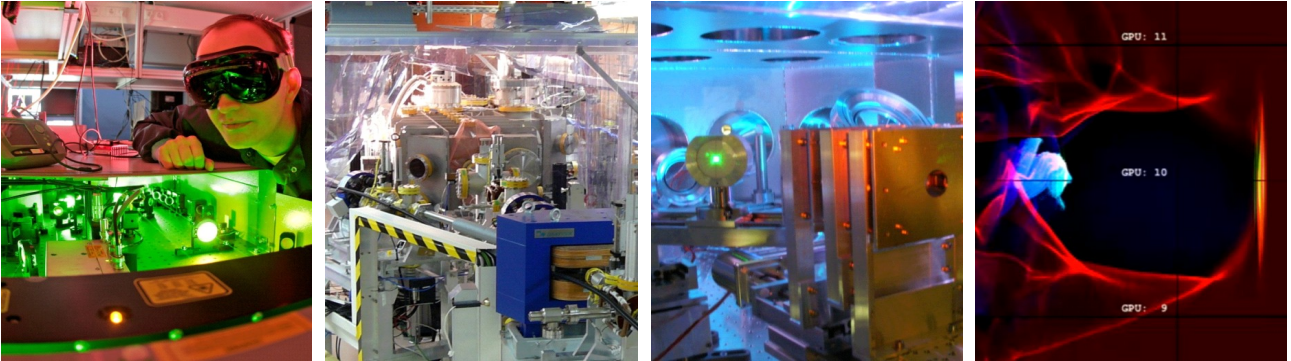


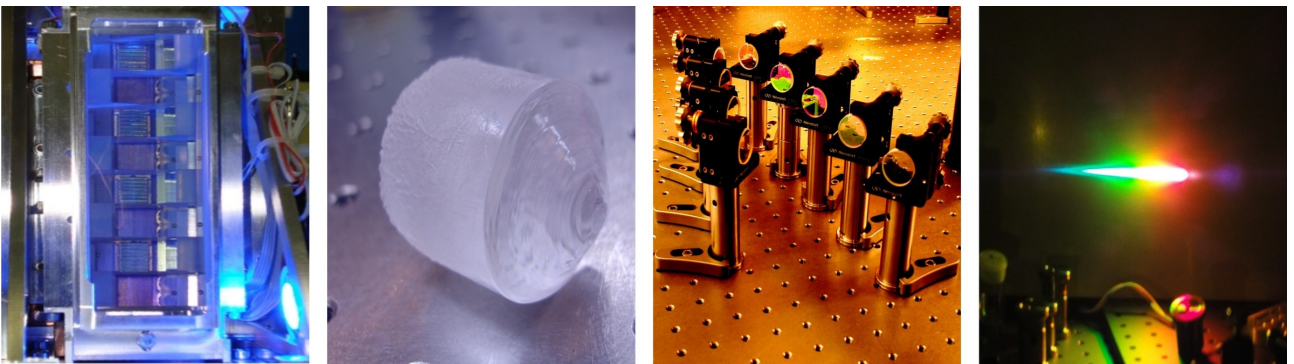
Ultra-high Intensity Lasers in Dresden

DRACO (Dresden Laser Acceleration Source) – a 150TW Ti:Sapphire laser system



- Subjects**
- Laser ion acceleration with applications in radiation oncology
 - Laser electron acceleration, Thomson scattering and optical undulators
 - High contrast front-end laser development and a system upgrade towards higher peak power

PENLOPE (Petawatt Energy-Efficient Laser for Optical Plasma Experiments) – a diode pumped PW-laser under development



- Subjects**
- New broad-band Ytterbium-doped laser materials
 - Parametric amplifier based front end for sub 100fs pulses with high pulse contrast
 - Management of thermal issues, parasitic lasing, laser induced damage and beam quality
 - Beamline, Pulse-Compressor and Diagnostic Development

BA, MA, diploma and PhD students welcome !

