

Keynote Speaker

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Next Generation Petawatt Laser Technology

Petawatt lasers enable cutting-edge research in High-Energy Density (HED) science, quantum science with extreme fields, and the generation of relativistic particle beams. A new generation of petawatt lasers are required to reach the 100 PW level. The Laboratory for Laser Energetics (LLE) has developed a 0.5 PW laser system demonstrating key scalable technologies, supporting the amplification of sub-20 femtosecond pulses to kilojoule-level energies in a newly proposed system.