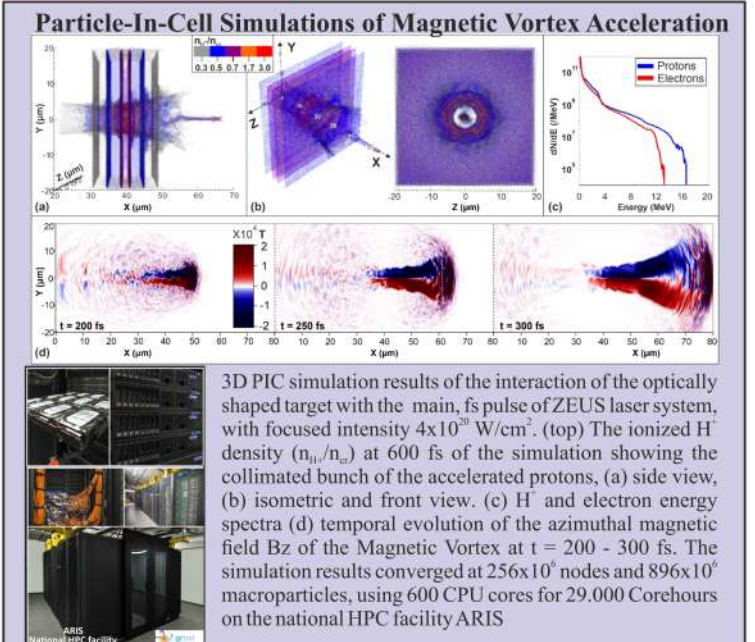
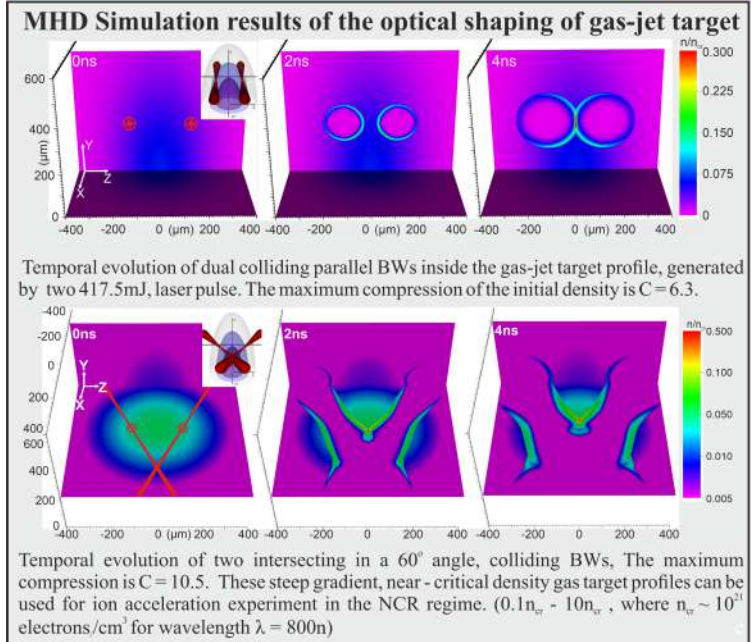
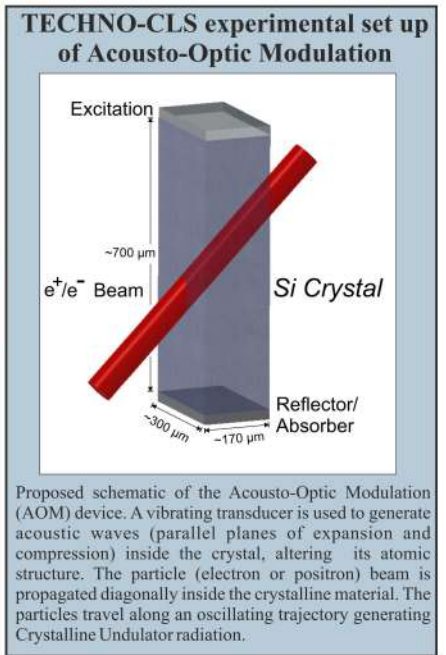
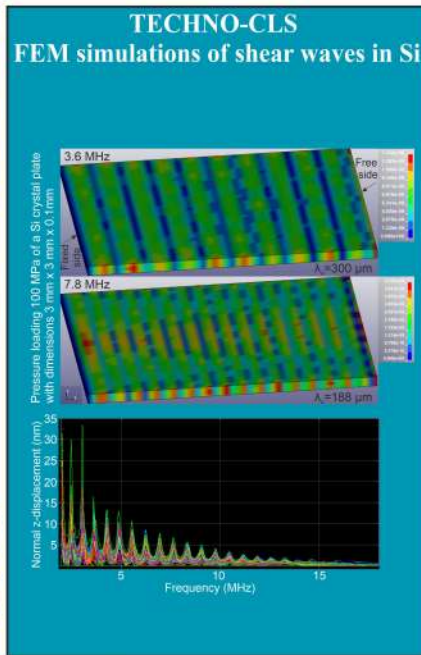
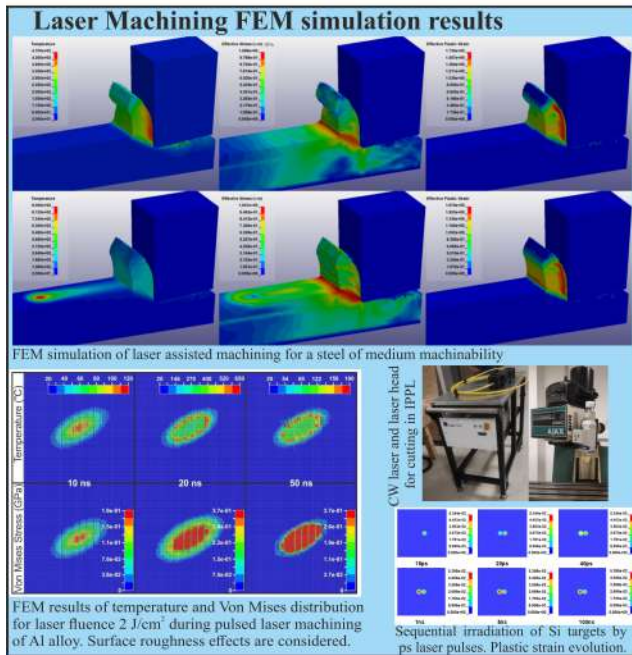


Multiphysics modelling and simulations of the experiments in the Institute of Plasma Physics and Lasers - IPPL

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IPPL is one of the access points of the National Research Infrastructure "ELI - LASERLAB Europe Synergy, HiPER & IPERION-CH.gr" (HELLAS-CH) and the leader of the "Fundamental Science Program" of the ESFRI research infrastructure HiPER. The three main research fields are: i. Laser-Matter Interactions, ii. Plasma Science & Technology, iii. Numerical Modeling & Simulations. Here we present simulation results of the experiments in IPPL for the fields of laser machining using CW and pulsed lasers, the generation of acoustic waves in crystals in the framework of the TECHNO-CLS program and high power laser interactions with gas targets (optical shaping, magnetic vortex acceleration).



This work was supported by COST (European Cooperation in Science and Technology) and Horizon Europe EIC-Pathfinder Project TECHNO-CLS: "Emerging technologies for crystal-based gamma-ray light sources". We acknowledge support of this work by the project ELI-LASERLAB Europe Synergy, HiPER & IPERION-CH.gr (MIS 5002735) which is implemented under the Action "Reinforcement of the Research and Innovation Infrastructure", funded by the Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund). This work was supported by computational time granted by the Greek Research & Technology Network (GRNET) in the National HPC facility-ARIS-under project ID pr013024-LAMPPOS II. This work has been carried out within the framework of the EUROfusion Consortium, funded by the European Union via the Euratom Research and Training Programme (Grant Agreement No 101052200 — EUROfusion). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission. Neither the European Union nor the European Commission can be held responsible for them. The involved teams have operated within the framework of the Enabling Research Project: ENR-IFE-D1.CEA "Advancing shock ignition for direct-drive inertial fusion"