

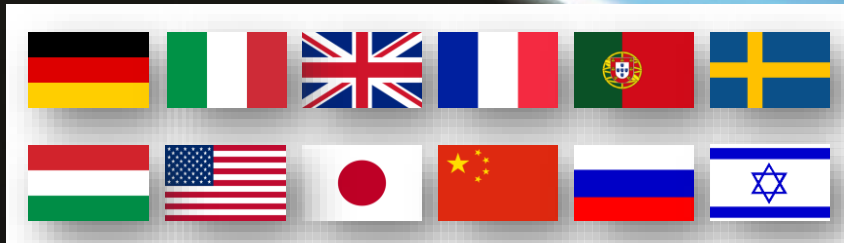
EUROPEAN
PLASMA RESEARCH
ACCELERATOR WITH
EXCELLENCE IN
APPLICATIONS



WP4 Laser Design and Optimization

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 653782.



- Review of shortlisted Eupraxia-relevant systems completed;
 - Demonstrated performances provide credible route for baseline parameters*
- Preliminary laser design: concept emerging;
- Key development topics identified:
 - Main amplifier development: laser head, thermal management
 - R&D for superior stability: intensity distribution (x,y), pointing
 - Rep-rated pump lasers: diodes development path, gain media
 - Temporal manipulation: contrast, multi-pulses and sync
 - Rep-rated compressor: thermal stability.
- An updated list of laser parameters was issued (tentative, to be circulated).