



Status update WP 10 - Use of other novel technologies

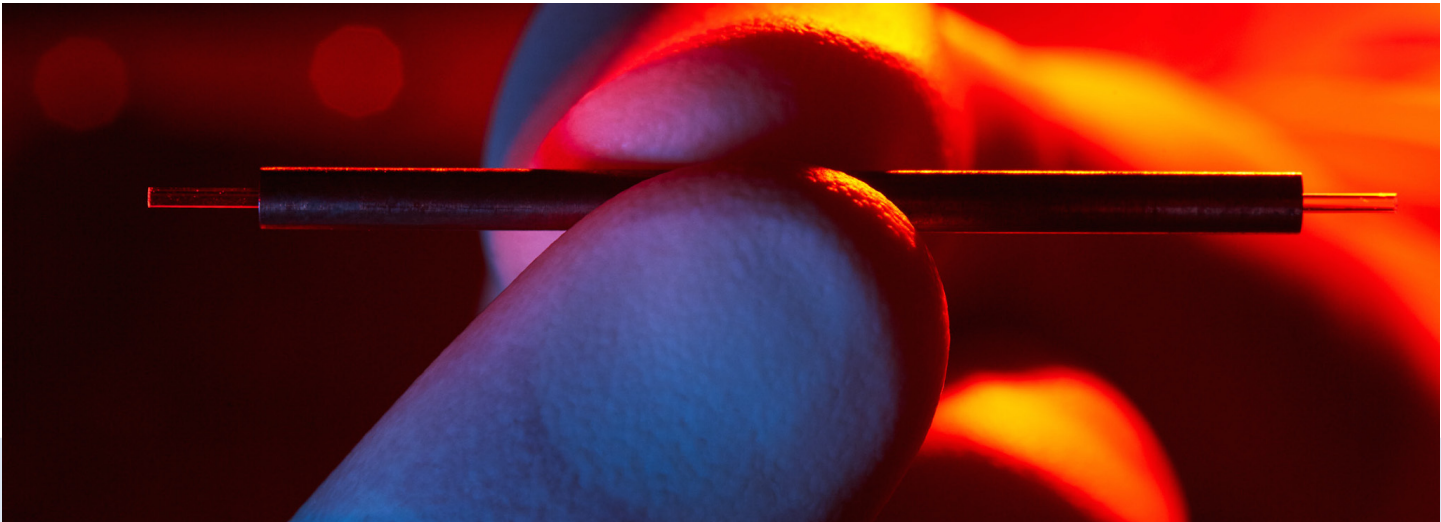
U. Dorda
EUPRAXIA yearly meeting
27.10.2016, Paris



- Task: monitor alternative novel technologies and evaluate their applicability to EuPRAXIA
 - Fiber laser
 - Dielectric acceleration
 - As alternative injector
 - As 'competition'

- Non-EU funded WP
 - 4 persons participating in meetings
 - Guoxing Xia (WP leader)
 - Ulrich Dorda (WP leader)
 - Barbara Marchetti
 - Andreas Walker
 - Few % only, so help and any hints are very welcome!

- Part of our normal job, eg. AXSIS, ACHIP, ...
 - We have a good understanding of the worldwide efforts
- Todo:
 - The next years will be an exciting time in the field with many experiments coming online
 - Start to fill wiki
 - Increase exchange between WP members



- So far:
 - Learned about fiber laser
 - The laser technology (incl. combination technologies)
 - it's application in LPWA
 - Gained overview over worldwide activities
- Todo:
 - Continue monitoring, study papers,...
 - Find best way to engage with the community, workshop?,.....

- 31.03.2017: D10.1: Tests are performed to extract an ultra-cold electron bunch from an alternating current magneto-optical trap.
- 30.09.2018: D10.2: Simulation and experimental studies on acceleration in dielectric structures
- 30.04.2019: D10.3: Summary report on possible alternative injector concepts including an analyses of the compatibility with the project requirements and identification of possible technological bottle-necks
- 30.04.2019: D10.4: Report on state of the art in fibre optics lasers and related ongoing research
- 30.04.2019: D10.5.: A conceptual design of an accelerator based on dielectric structures, analyzing achievable beam parameters.