

- Very productive WP4 individual meeting (yesterday and today);
- Baseline Ti:Sa entering technical design and defining details of **needed experiments and prototyping**;
- News for 100 Hz pumping options – **feasibility study** launched soon (subject to seed funding availability) (white paper from FBH-STFC-HZDR-Uni-Jena cooperation);
- 100 Hz, 10J scale **DIPOLE development** progressing (STFC);
- 100 Hz, J-scale Ti:Sa **internal project** in progress at industrial level (Thales);
- 20 Hz Ti:Sa layout based **on available components** (LLNL) being considered;
- Tm:YLF **concept for Direct CPA** (high wall-plug efficiency) evolving;
  - Need of exploring impact of **longer wavelength** driver (1  $\mu\text{m}$ , 1.9  $\mu\text{m}$  ...)

- **Preparing for forthcoming deliverable deadlines (October 2018)**
  - Final **requirements** and **control-command**;
  - Review requirements of main laser;
  - Specify requirements of ICS laser, seeding laser, photocathode laser ...
- **Praparing for the Yearly meeting in Frascati (19-23 Nov):**
  - WP4 update meeting and review of technical options
  - WP2-3-4-5 joint meeting on **synchronization and timing**;
  - Coordination inside WP4 of the proposed contribution on laser development for next phase (Ralph's Excel file of 28/6/2018)\*
    - Groups/Industry to circulate a preliminary version internally for consideration\*;
  - Brainstorming on weighting of criteria for technical options assessment;
    - Break down "Laser technology" item is sub-systems
      - By beamlines (150 MeV, 1 GeV, 5 GeV)
      - By components (amplifier chain, pump lasers, transport to target, compressor ...)

\*added after presentation