

LUXE discussion



LUXE Special Technical Meeting 17.11.2023

Jenny List

News on LUXE

Reminder

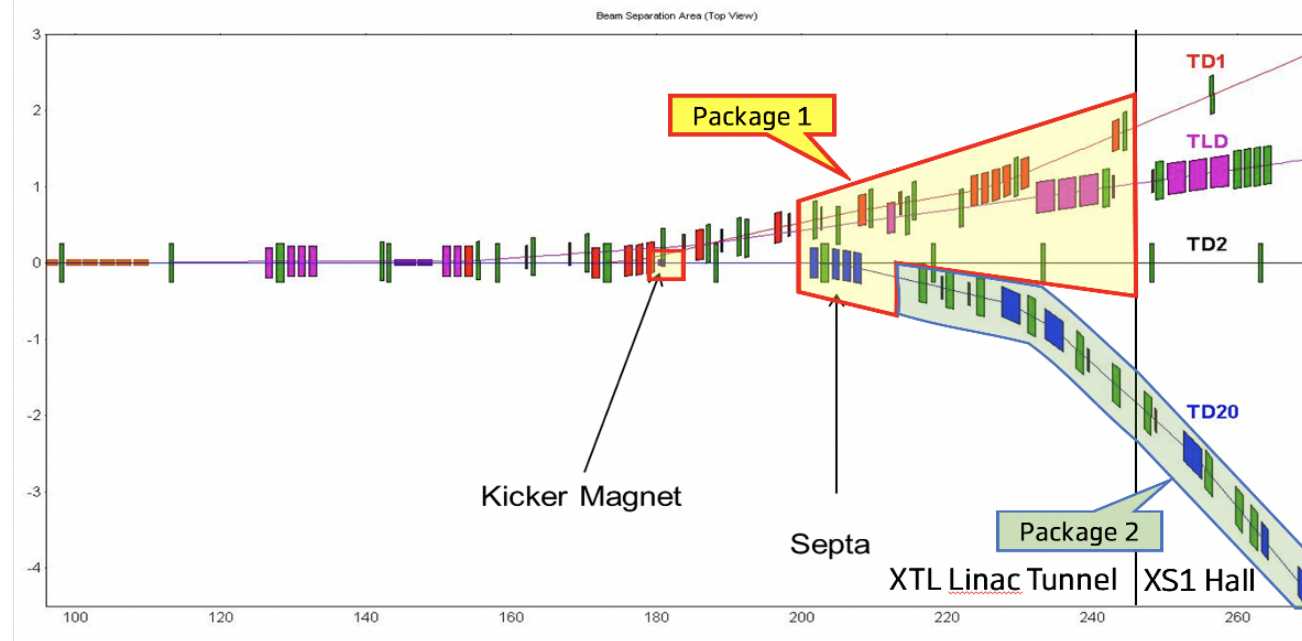
Installation of “package 1” in 6-months shutdown of Eu.XFEL in 2025 essential (8 weeks work to reconfigure 3x 40m of beamlines)

PRC Recommendations April 2023:

“The committee notes with satisfaction the progress in preparing the beam line for the experiment, i.e. the purchasing of the beam line magnets. **The PRC notes that several items of the TD20 extraction beamline are on the critical path to meet shutdown 2025 and urges all involved parties to start the order soon (Septa, Dipoles) to be ready for installation during shutdown 2025.**”

Message to PRC Today:

The order for the Septa (~300kEUR) had been approved by the directorate, but the call for tender was never started due to lack of prioritisation in M division. **Currently, the directorate does not pursue preparations for installation of package 1 in the 6-month shutdown of the Eu.XFEL anymore due to the general financial crisis at DESY and the failure of the ERC Synergy Grant.**



What does this mean for LUXE?

- too hot-of-the-press to be able to present a final answer
- discussion with collaboration ongoing, Collaboration Board meeting planned for December 8
- will delay LUXE significantly — but not a cancellation
- need to re-evaluate broadly options for SF-QED experiments at DESY together with M / DIR
- immediate R&D in detectors & software will continue
 - will need *even more* simulations to understand opportunities for SF-QED at DESY and elsewhere more broadly
 - Quantum Computing tracking of general interest
 - LUXE's high-rate detectors have various applications in beam / dump instrumentation
 - e.g. contribute Cherenkov detectors to E320 at SLAC => planning for tests ongoing

Thank you