



Work package 7

Photon Beamlines and Experiments



Summary

Objectives of this work package ...

“Prepare a common technical infrastructure to exploit the new facilities from the start with the highest efficiency”.

“Joint technical work on advanced photon diagnostics for commissioning and operation as well as optimized concepts for photon beam delivery”.

WP 7.1 Optimised design of beamlines and user stations (MAXLAB)

Deliverables:

- D7.1 Report by user group 1 and 2 (MAXLAB)
- D7.2 Generic beamline concept based on user reports (MAXLAB)

WP 7.2 Photon diagnostics (DESY)

Deliverables:

- D7.3 Demonstration of lateral intensity measurement (DESY)
- D7.4 Demonstration of temporal intensity measurement (DESY)
- D7.5 Demonstration of online jitter monitoring (MAXLAB)

WP 7.3 Optics for beam transport and focusing

7.3.1 Radiation damage of optics (STFC)

Deliverables:

- D7.6 Demonstration of in situ characterisation of the optical performance (STFC)

7.3.2 Microfocusing optics (*ELETTRA*)

Deliverables:

- D7.7 Demonstration of the improved fabrication scheme for adaptive mirrors

7.3.3 Multiple use of the FEL beam (*BESSY*)

Deliverables:

- D7.8 Fabrication of test structure (BESSY)
- D7.9 Demonstration of a beam splitting technique (BESSY)

Results

- We agreed on minor changes of the STFC contributions, but these changes do not affect the defined list of deliverables and milestones.
- It became obvious that BESSY needs detailed input from the other facilities for their beam splitting task (realistic values for beam size, wavelength, heat load, etc.)
=> ELETTRA, STFC and DESY will define realistic requirements (until the next meeting)
- We agreed to elaborate our working plans for the first year until the next meeting.

Control tools and meetings:

- Annual status report of each task and subtask leader.
- Meeting every six month
=> first meeting end of summer in Trieste
- Phone conference before/after each milestone (first in 6 month)

Time Schedule



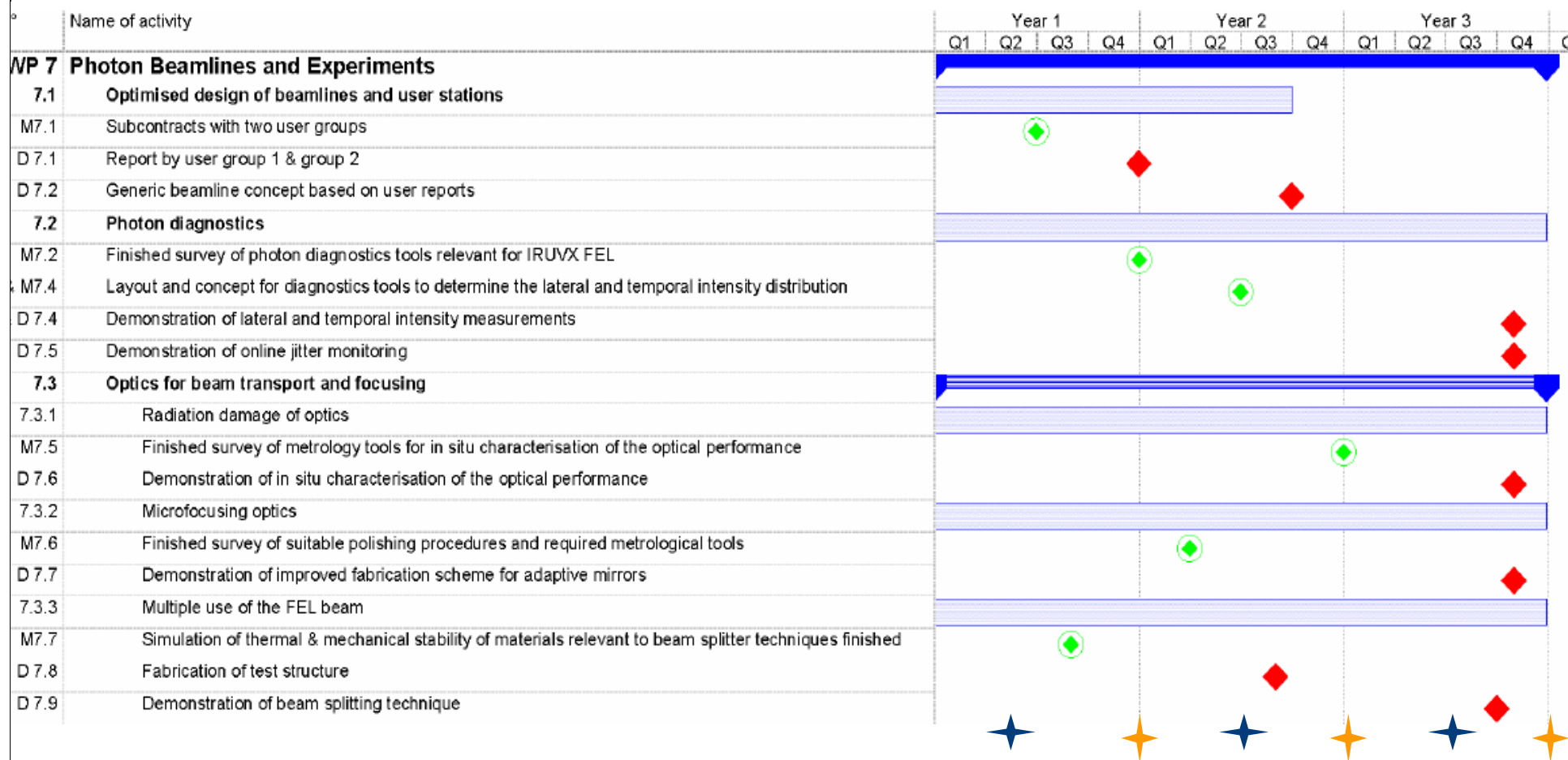
Deliverables



Milestone



Annual meeting
WP meeting



Summary

Since we have a working collaboration dealing with radiation damage problems of FEL optics (STFC, ELETTRA, BESSY, etc.) for many years, the WP7 participants feel confident of a fruitful collaboration...



End



Contact persons

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|----------|----------------------|
| BESSY: | Daniel Schondelmeier |
| DESY: | Kai Tiedtke |
| ELETTRA: | Daniele Cocco |
| MAXLAB: | Jorgen Larsson |
| STFC: | Marion Bowler |
| INFN: | ?Valerio Rossi |
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