

Status WP5

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Status

- Delay due to unforeseen issues at CERN, requiring my full attention.
- Things are defined but help in formalities (filling in the forms) would be very useful and welcome. The templates I have...

Objectives

- WP 5.1: Coordination & Communication
 - To coordinate and schedule work package tasks
 - To monitor work progress and inform the project management and work package participants
 - To follow up the WP budget and use of resources
 - To prepare internal and deliverable reports
- WP 5.2: IR Simulations of Halo Loss
 - Assess locations and magnitudes of halo loss in the IR's for various upgrade scenarios.
 - Assess impact of imperfections.
- WP 5.3: IR Simulations of Energy Deposition
- WP 5.4: Design of IR Collimation

WP Structure I

- WP 5.1: Coordination and Communication
- WP 5.2: IR Simulations of Halo Loss
 - Collimation Sixtrack: CERN ABP, Valencia
 - Collimation Merlin: Manchester
 - Collimation Geant: Royal Holloway
- WP 5.3: IR Simulations of Energy Deposition
 - Mars: FNAL
 - FLUKA: Manchester
 - Geant: Royal Holloway

WP Structure II

- WP 5.4: Design of IR Collimation
 - CERN ABP
 - Valencia

Objectives

- WP 5.1: Coordination & Communication
 - To coordinate and schedule work package tasks
 - To monitor work progress and inform the project management and work package participants
 - To follow up the WP budget and use of resources
 - To prepare internal and deliverable reports
- WP 5.2: IR Simulations of Halo Loss
 - Assess locations and magnitudes of halo loss in the IR's for various upgrade scenarios.
 - Assess impact of imperfections.

Objectives

- WP 5.3: IR Simulations of Energy Deposition
 - Assess locations and magnitudes of halo loss in the IR's for various upgrade scenarios.
 - Assess impact of imperfections.
- WP 5.4: Design of IR Collimation
 - Study required collimation to keep losses at the same level or below before the upgrade.
 - Integration of collimators, new layout and optics.
 - Feed forward to simulation WP's.

Milestones

- M12: Set up of models and implementation of upgrade optics.
- M24: Assessment of beam halo losses in various upgrade scenarios.
- M36: Definition of new IR collimation solution.
- M42: Verification of new IR collimation solution in simulations. Possible iteration in design.
- M48: Final report.

Resources

- Required support per year was defined, assume 100% funding from EU, if funding ratio is less then staff numbers must be increased to allow hiring of full post-docs and full students per lab.

Required Resources

- Coordination
 - 0.1 staff,
 - 30 kCHF travel,
 - 20 kCHF material
- CERN ABP
 - 0.2 staff,
 - 1 post doc,
 - 1 phd,
 - 15kCHF travel,
 - 10 kCHF materials

- Valencia
 - 0.2 staff,
 - 1 post doc,
 - 15 kCHF travel,
 - 5 kCHF materials
- Manchester
 - 0.2 staff,
 - 1 post doc,
 - 1 student,
 - 15 kCHF travel,
 - 5 kCHF materials

- Royal Holloway
 - 0.2 staff,
 - 1 post doc,
 - 1 student,
 - 15 kCHF travel,
 - 5 kCHF materials
- FNAL
 - 15 kCHF travel
- SLAC - 15 kCHF travel (still to be confirmed)