





LhARA design and integration plans and schedule

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WP6 Tasks

- 1. Lattice optimisation, aperture estimation, parameter list and schematic diagram update;
- 2. Preliminary design of the MA RF cavity;
- 3. Preliminary design of the FFA magnet;
- 4. Preliminary design of a solenoid capture and focusing system to mitigate the risks associated with WP3;
 - 5. Preliminary design of the bulk shielding, beam dump and radioprotection requirements;
 - 6. Preliminary design of the diagnostic system;
 - 7. Preliminary design of the control and feedback systems;
 - 8. Mechanical design of accelerator system and integration;
 - 9. Preliminary design of the building and infrastructure requirements;
 - 10. Preliminary design of the vacuum system;
 - 11. Preliminary design of the mechanical supports including the vertical arc;
 - 12. Estimation of the power consumption and cooling requirements;
 - 13. Finalise the Conceptual Design (all systems);
 - 14. Complete contributions to LhARA CDR (24 months).

WP6 Schedule

