

ELENA Project



ELENA Commissioning Conditions for 2019



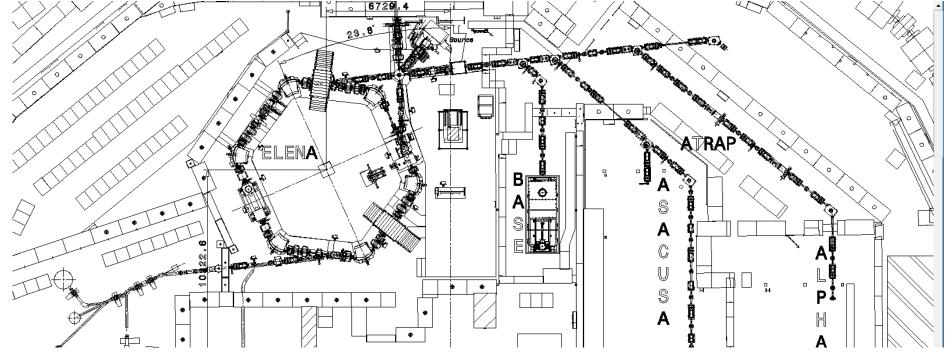
ANTIMATTER FACTORY





Background





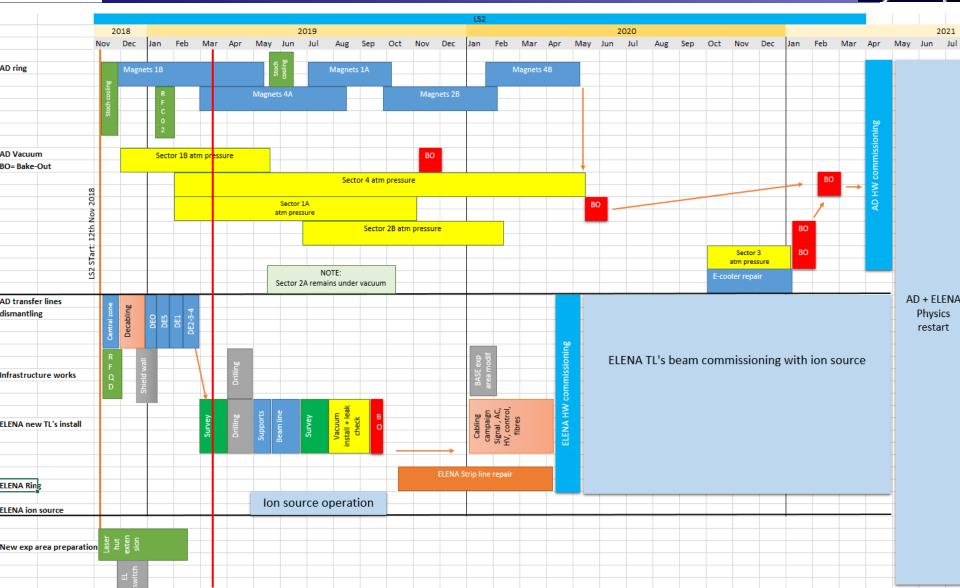
Objectives for 2019:

- -Restart the ion Source in May
- -Circulate ions in ELENA ring June September
- -If possible use RF
- -If possible eject ions to GBAR



Master planning







Boundary Conditions



- Operation with ions typically below 1 MeV, is considered safe for RP.
- It is possible to "strap" the EISb (BTV) to allow injection in the ring with the access to ELENA open,
- Needs adequate compensatory measures: if no measure is fail safe on its own: redundancy is acceptable
- Already checked with main bending magnets: EPC can propose 2
 levels of protection (limit current to 100 A)
- What can be done at OP and RF level in order to "eliminate" this risk of accelerating ions beyond an energy of typically 700 keV.
- Compatible with Btrain system?
- Once clear: propose scheme to PS CSAP / IEFC for a beam permit with strapped EISb