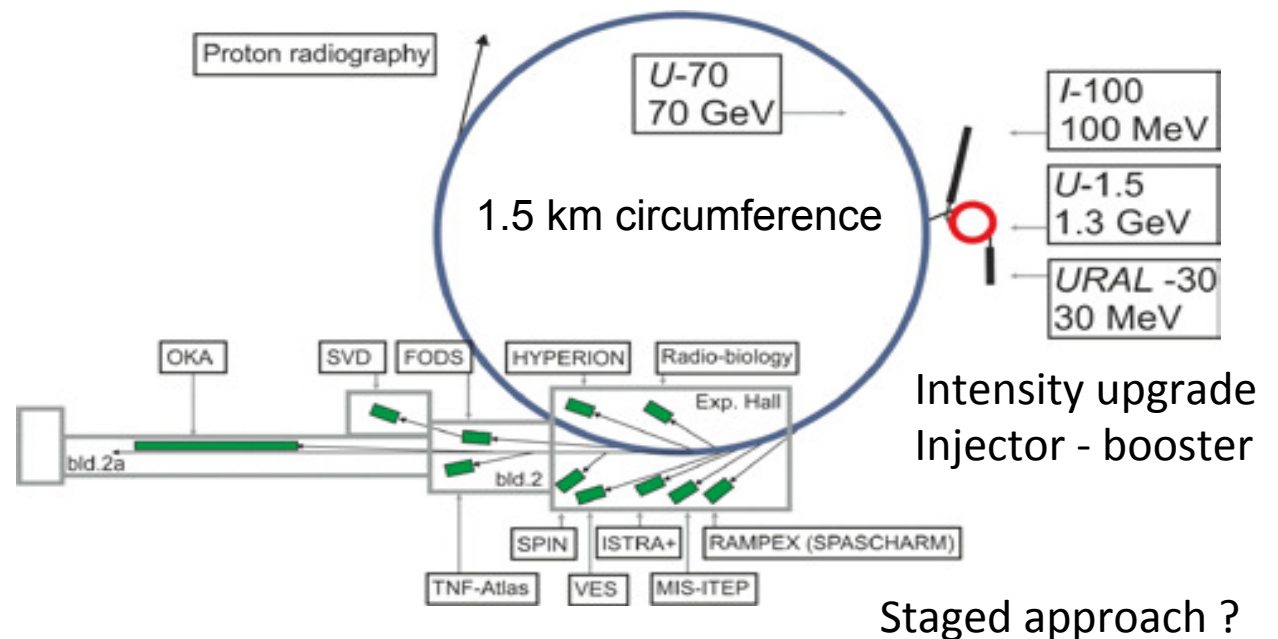
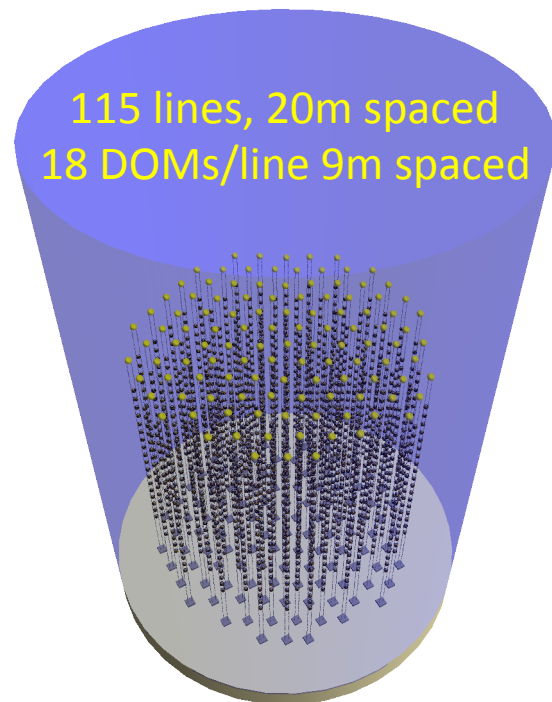


LBL Experiment Protvino - ORCA

- KM3NeT/ORCA detector under construction, first neutrinos seen
- Ready within few years, many Mtons fiducial volume
- Protvino U70 proton accelerator operational at $E_p = 70$ GeV
- Neutrino beam (to be constructed) at $E_\nu = 2-7$ GeV is optimal for baseline of 2590km



Physics potential

- Both Neutrino Mass Hierarchy and CP violation accessible
- No degeneracies, small cross section systematics
- First high statistics LBL experiment
- 3 years at 450kW running \rightarrow ν_e event rate varies by 3300 events with CP phase !
- High precision measurement of δ_{CP} within few years

