



Co-funded by the European Union



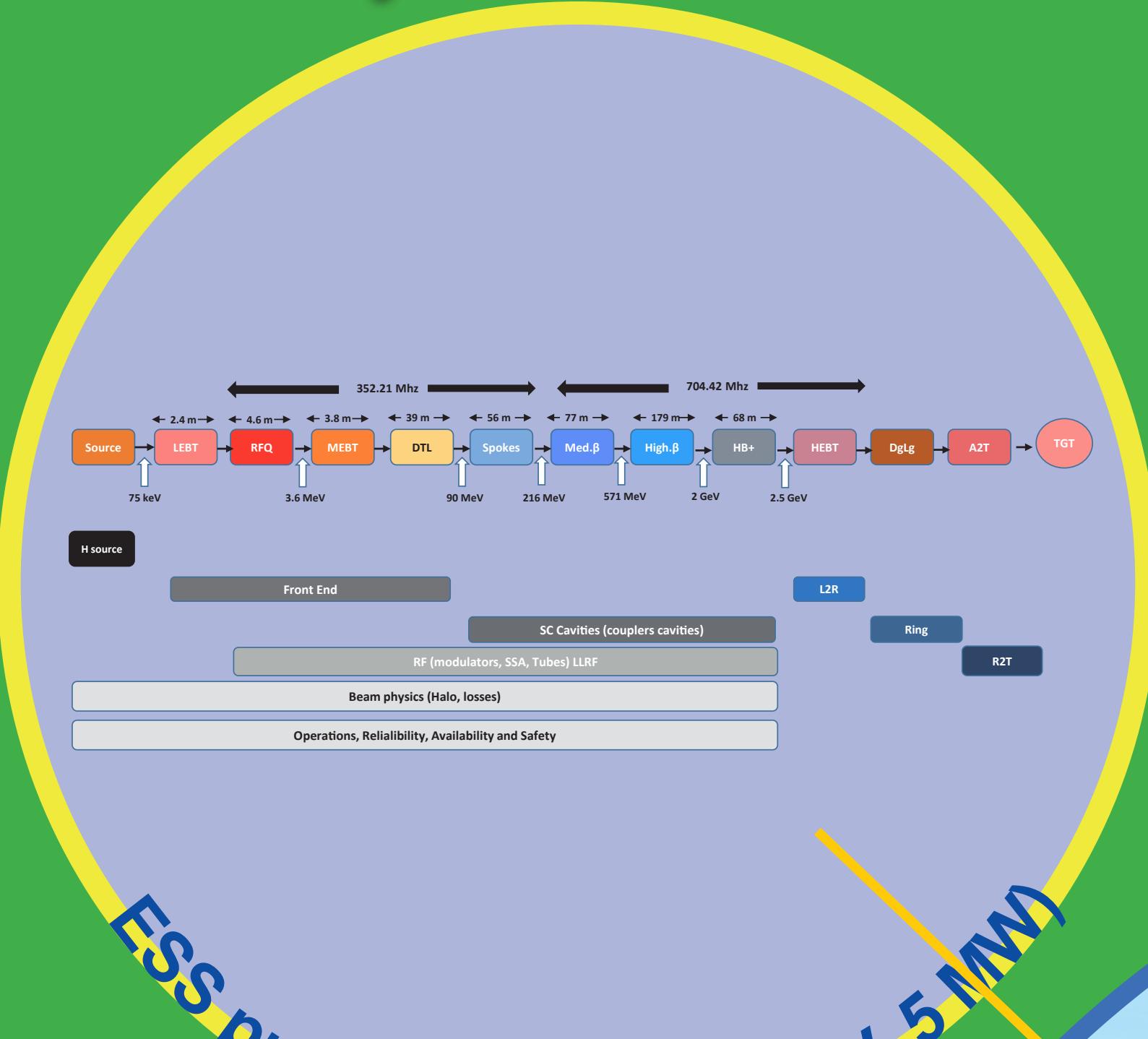
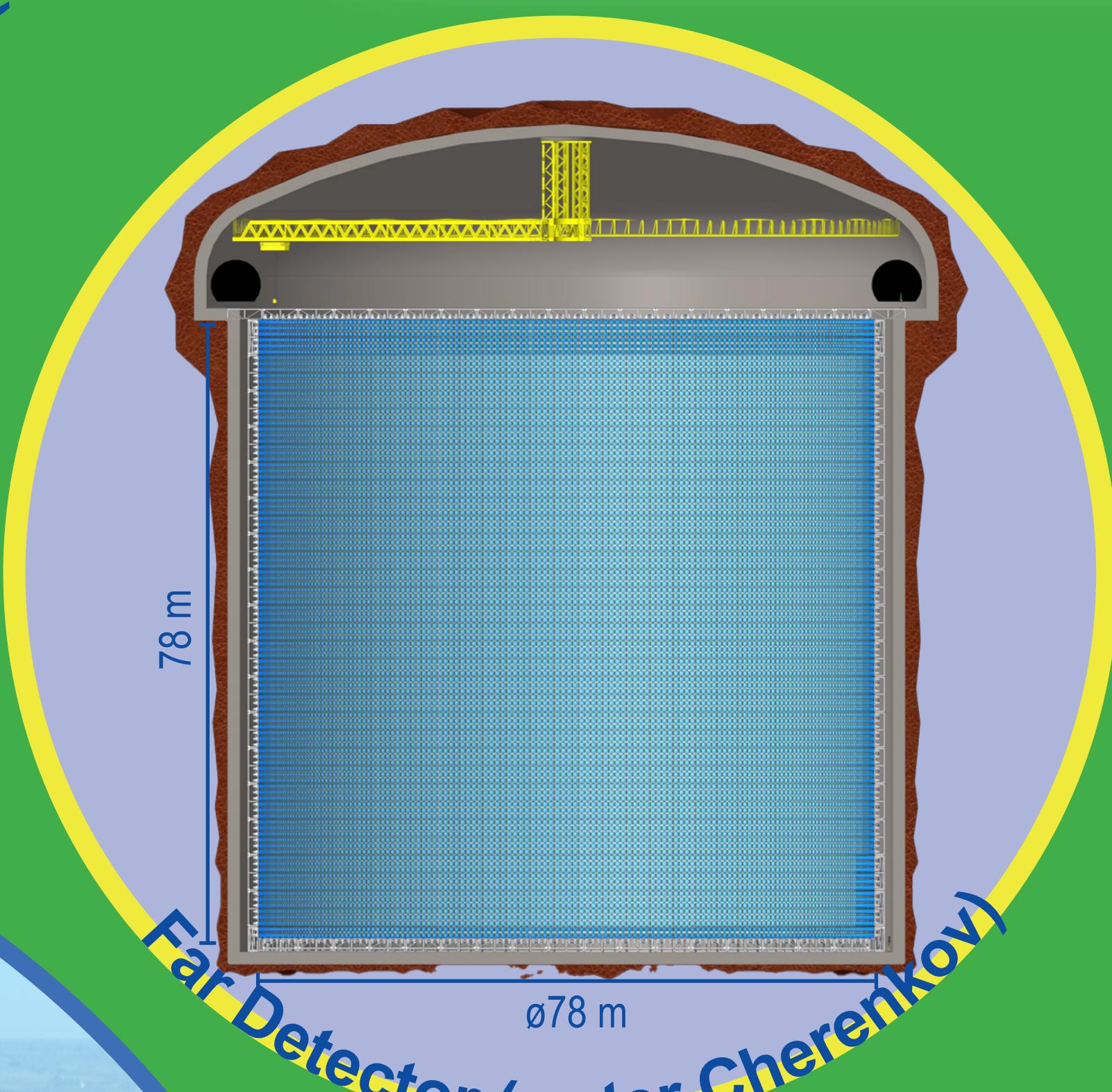
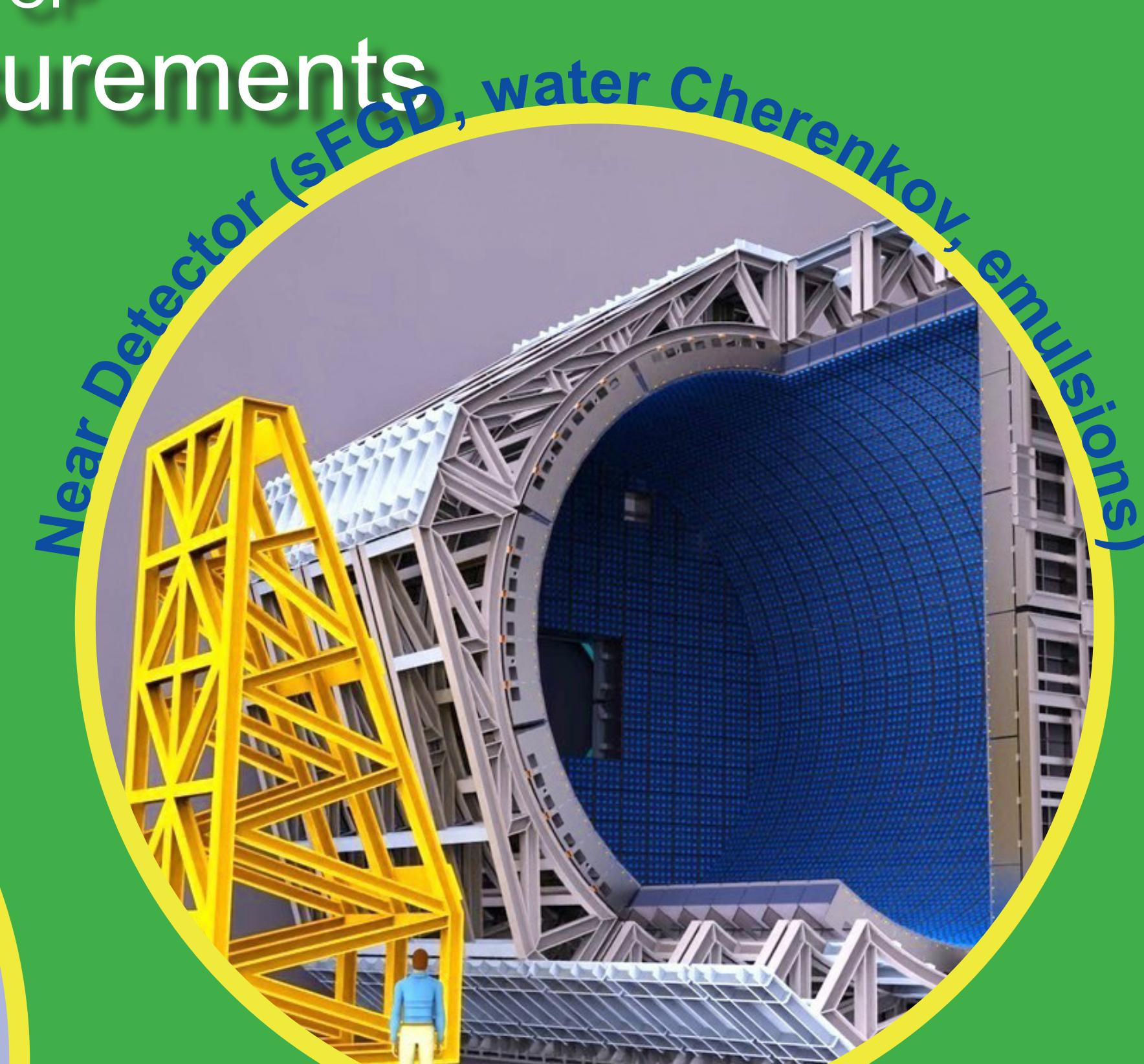
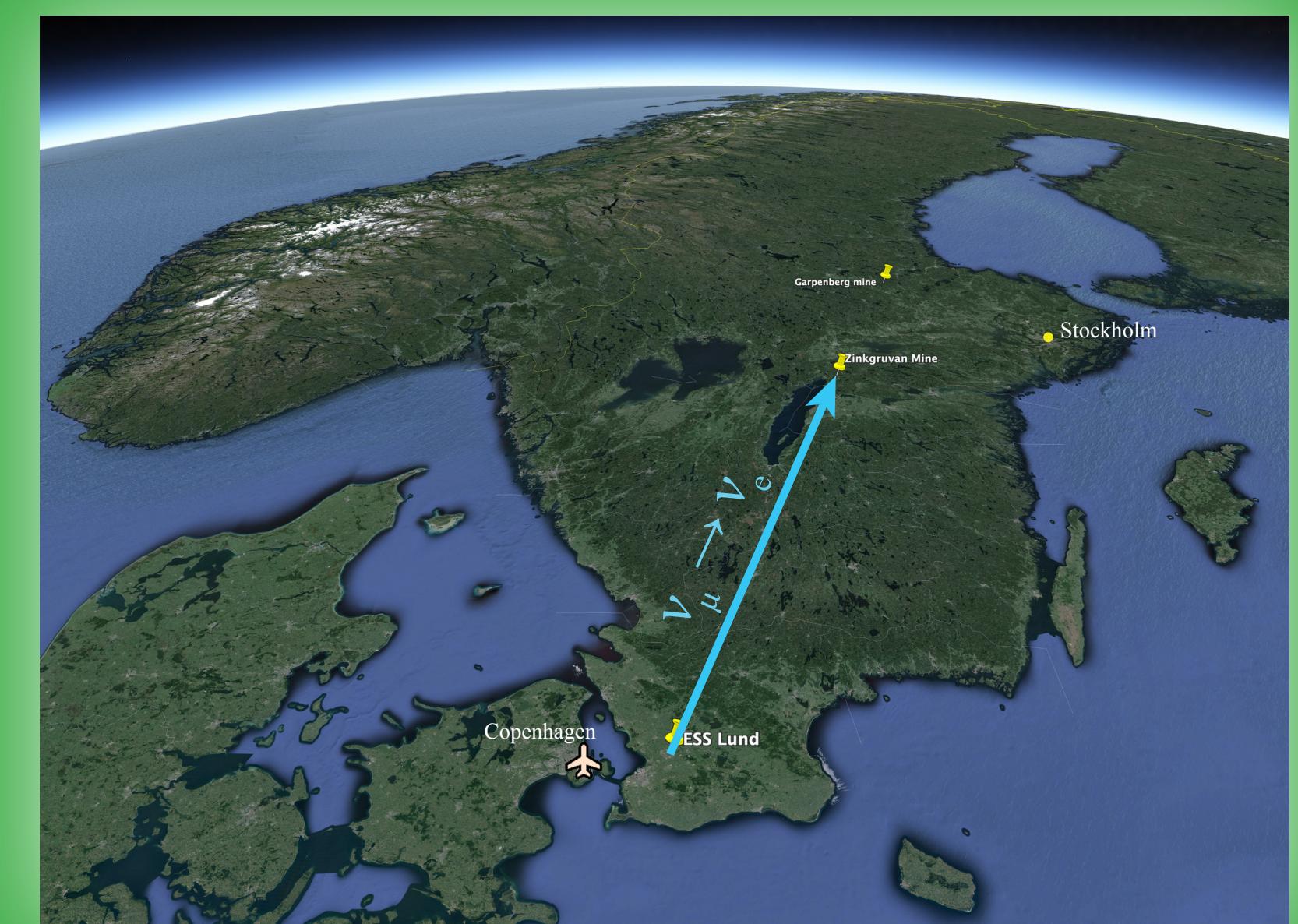
The ESS neutrino Super Beam

CP violation precision measurement

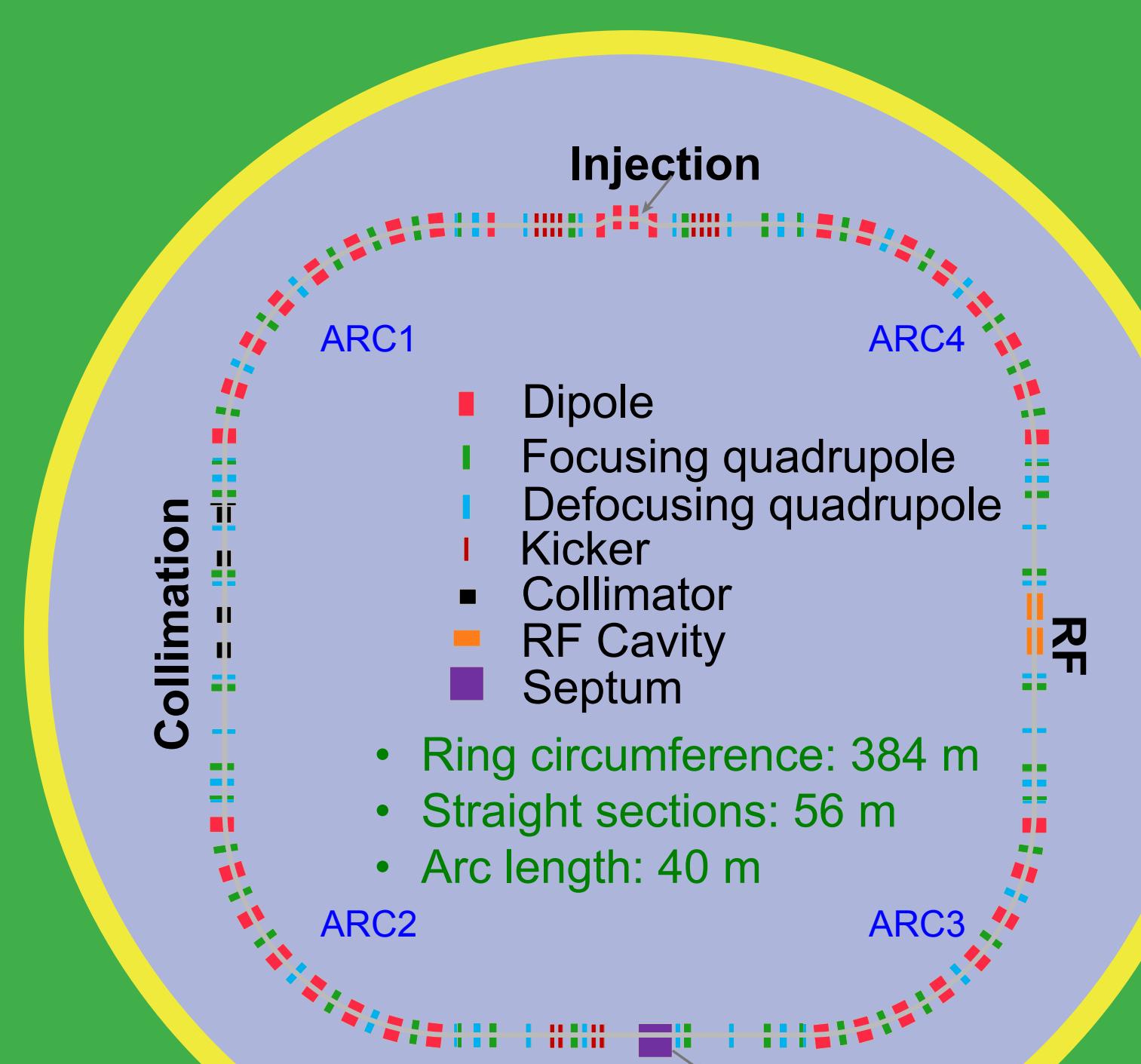
(presented by T. Tolba and M. Dracos on behalf of the ESSnuSB+ Collaboration)

Physics Programme

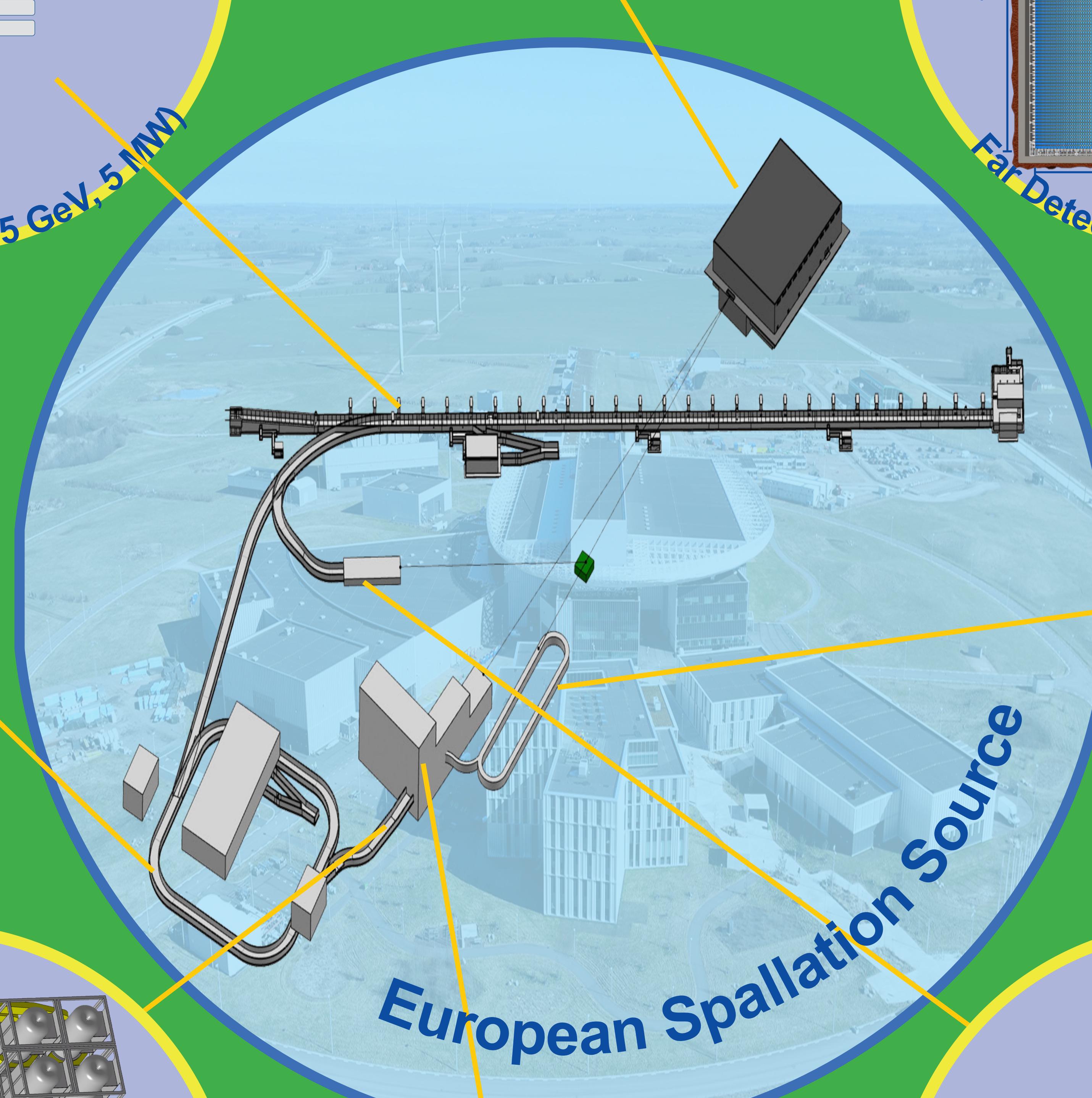
- Neutrino CP Violation discovery
 - Precision measurement of δ_{CP}
- Neutrino cross-section measurements
- Sterile neutrinos
 - Supernova neutrinos
- Proton decay
- ...



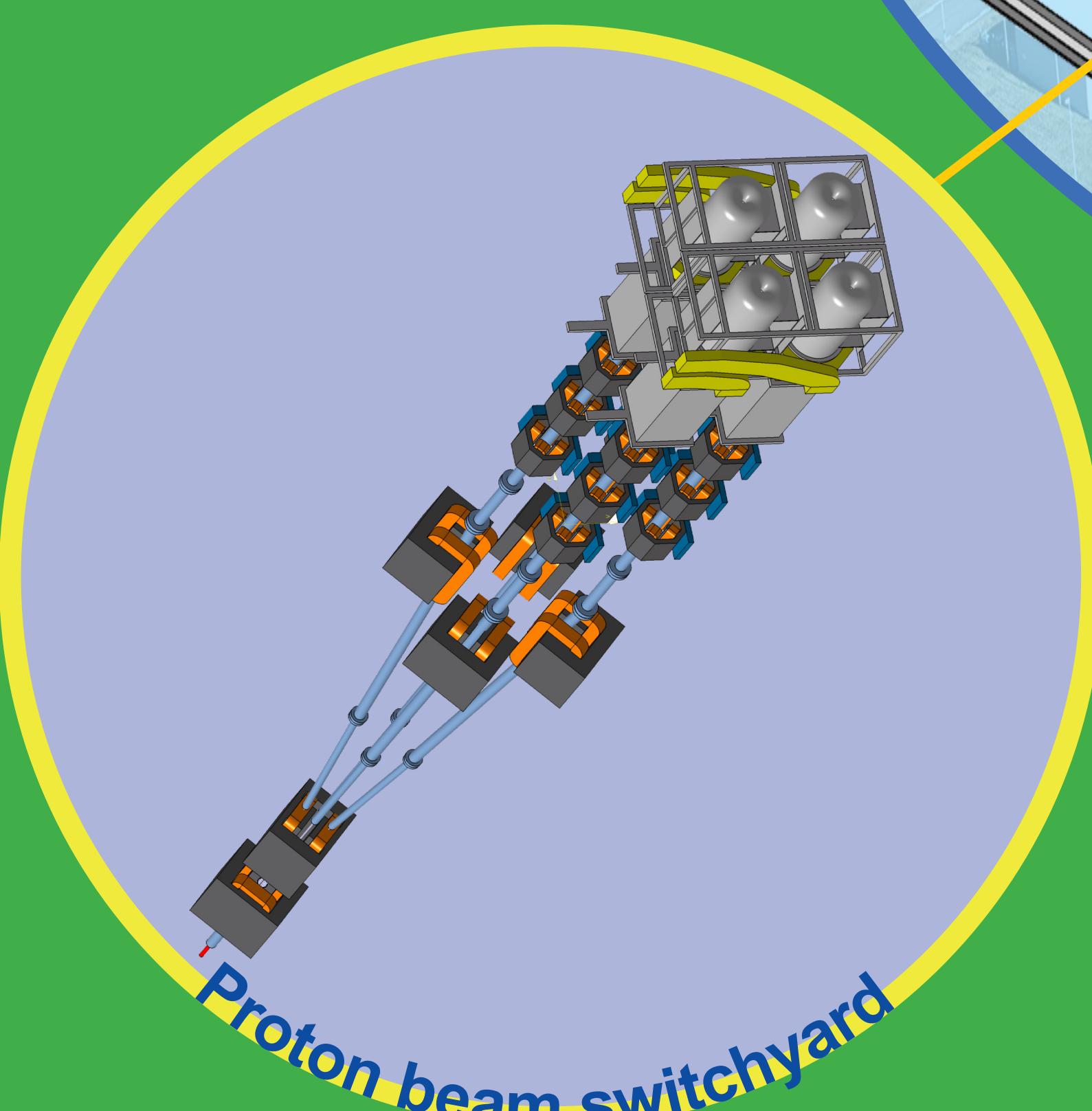
ESS proton driver (2.5 GeV, 5.1 MW)



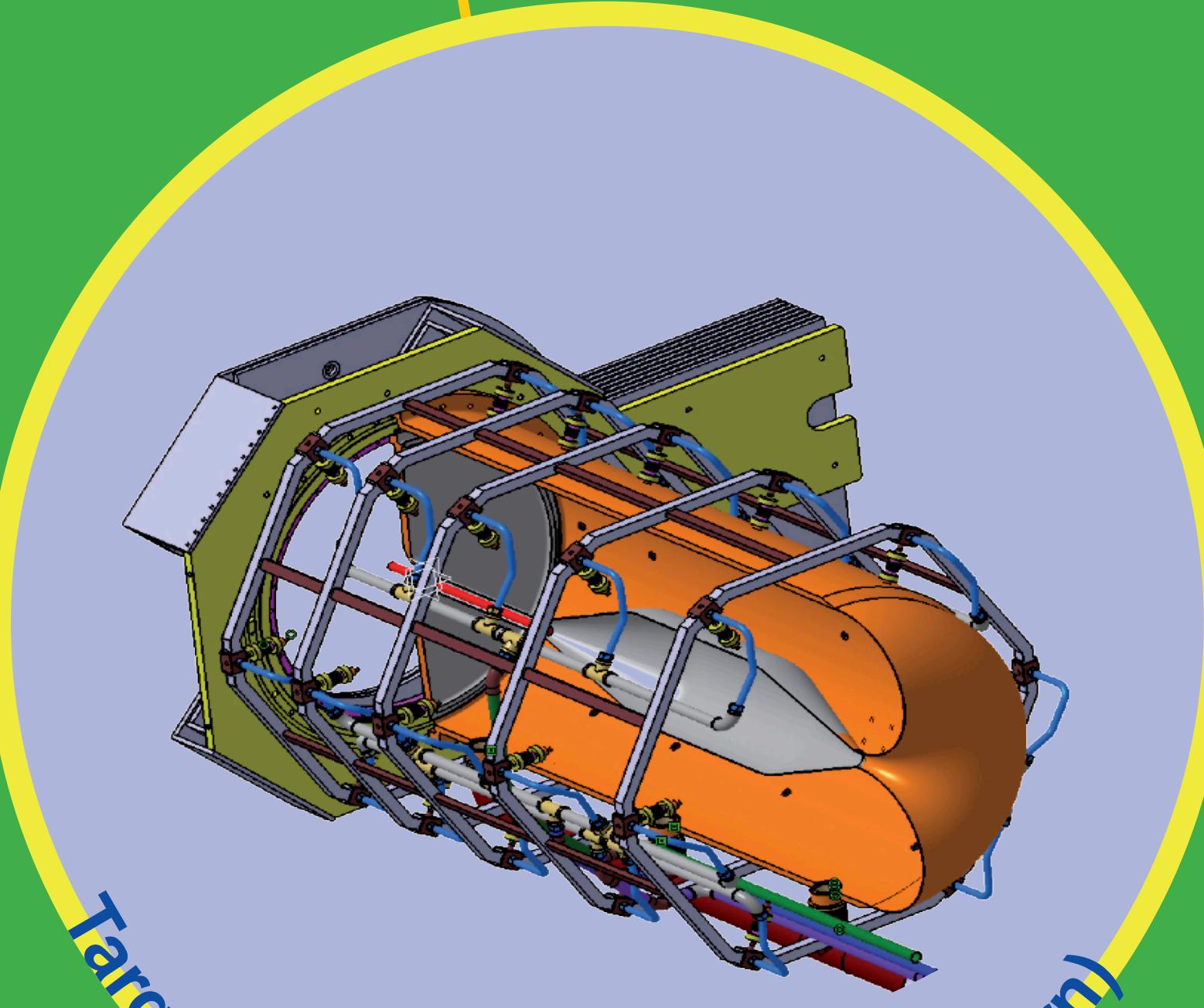
Accumulation ring



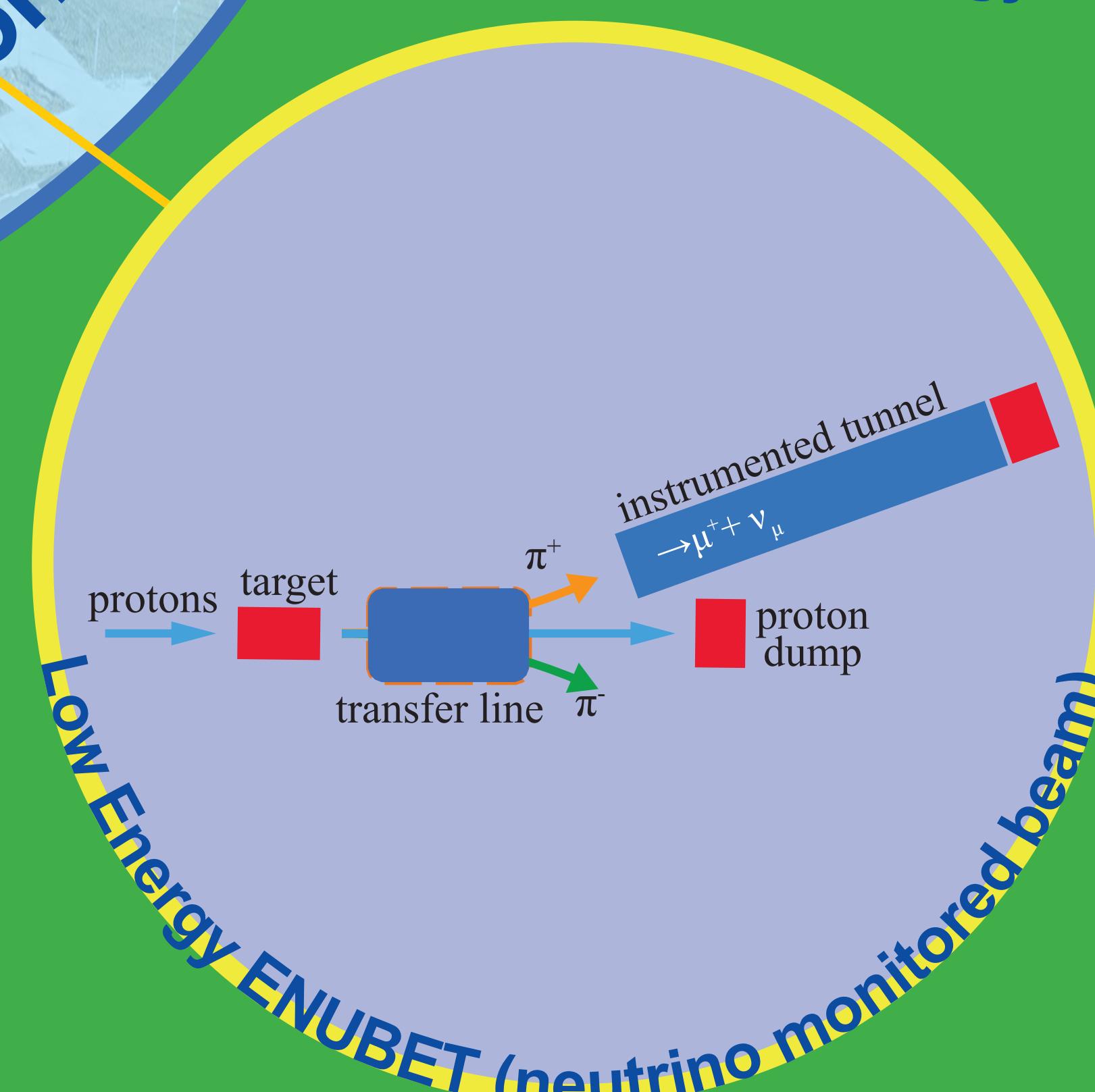
European Spallation Source



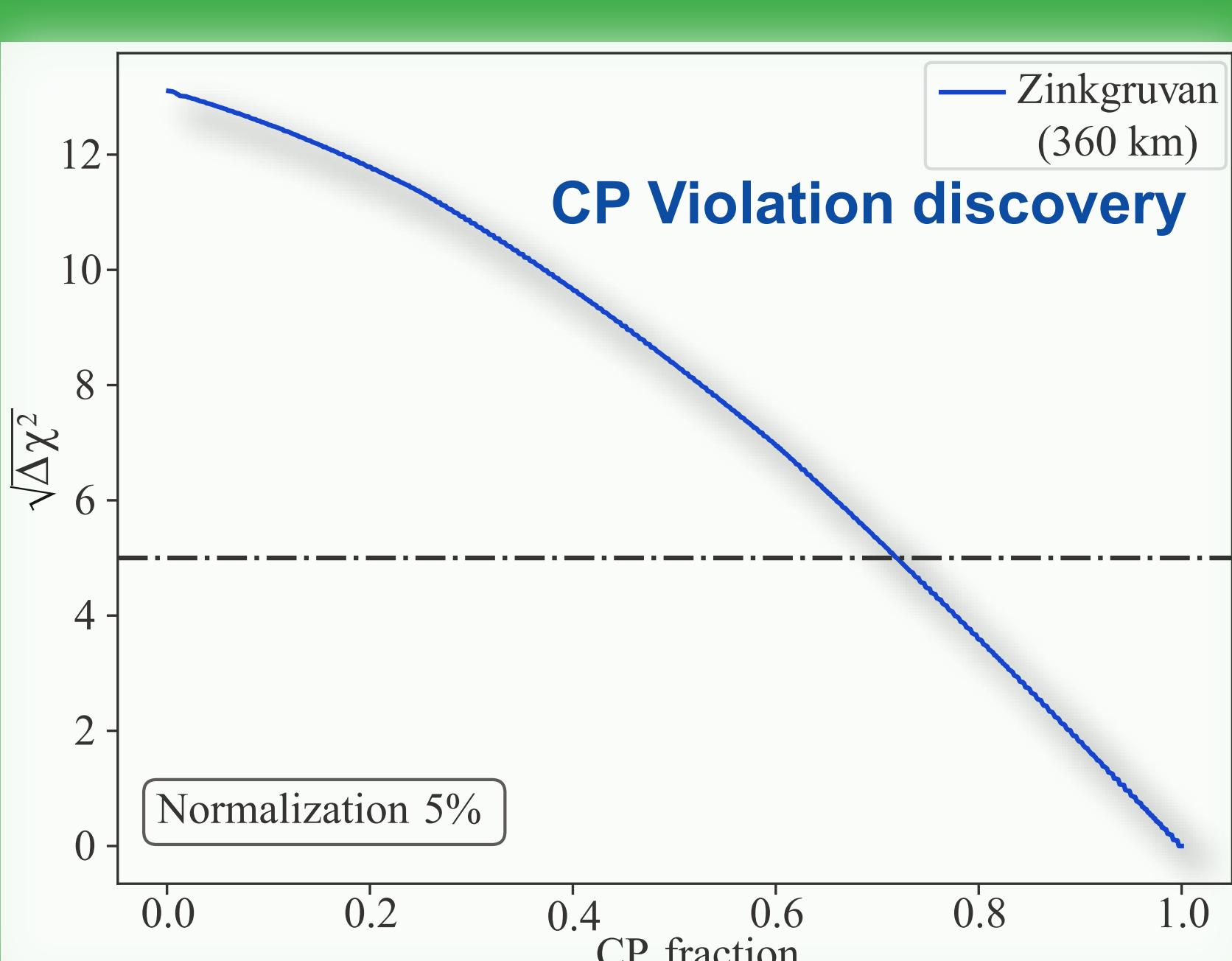
Proton beam switchyard



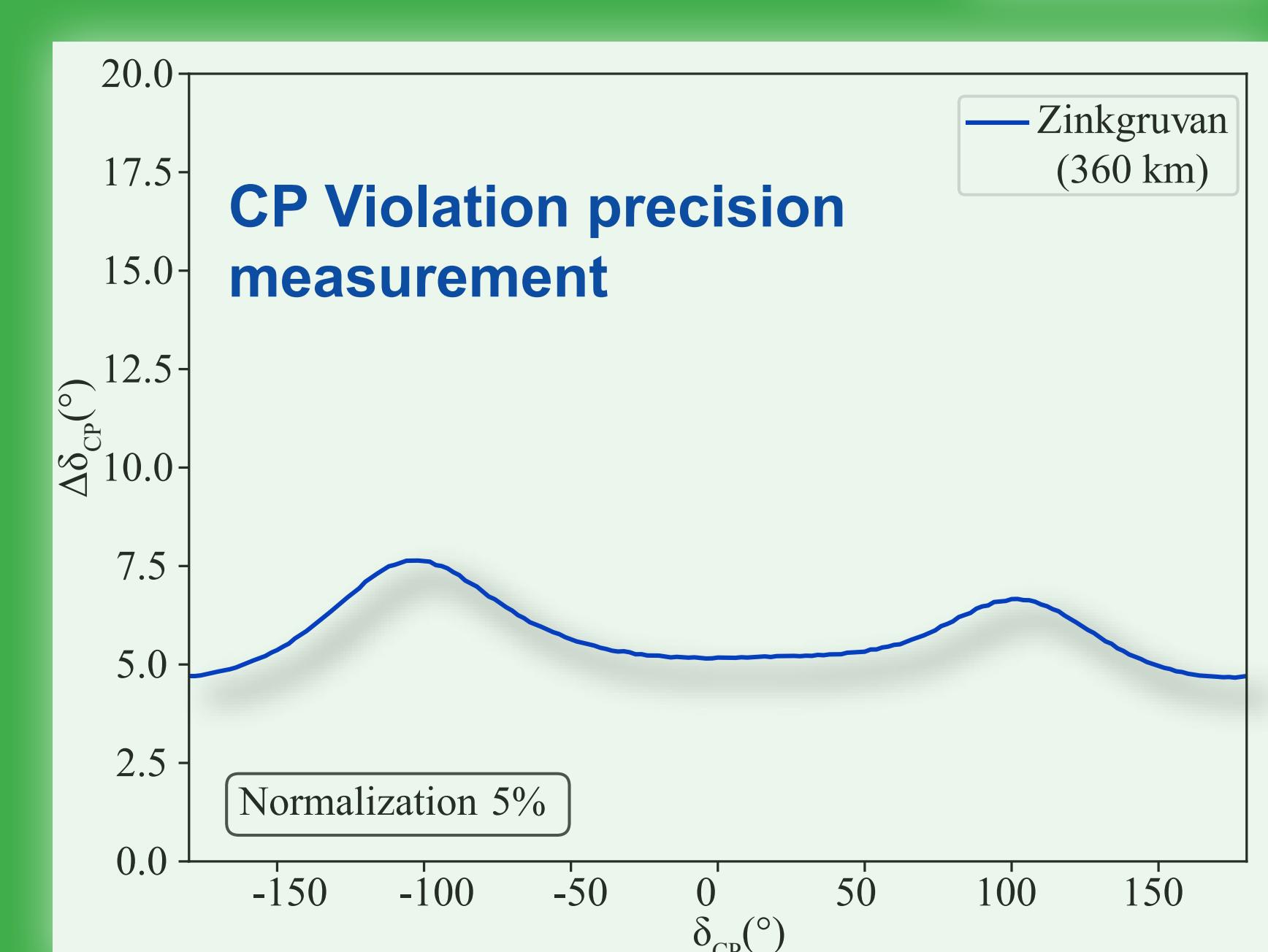
Target and hadronic collector (horn)



Low Energy ENUBET (neutrino monitored beam)



CP violation performance



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