

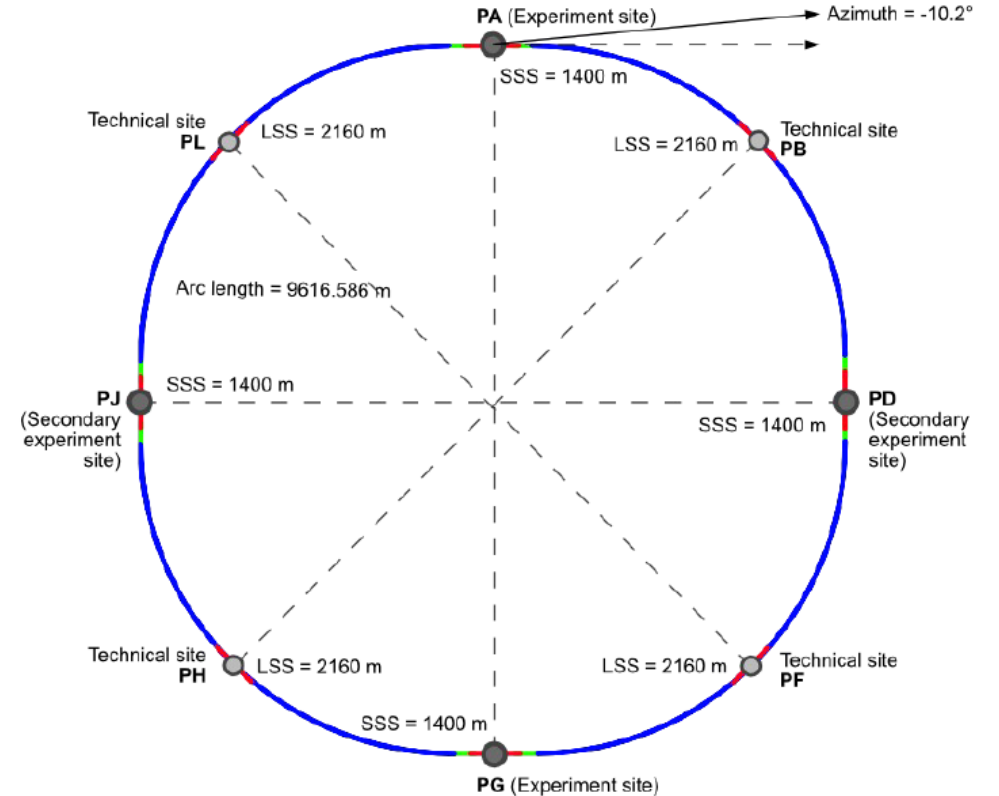
RF layout and the centre of mass energy.

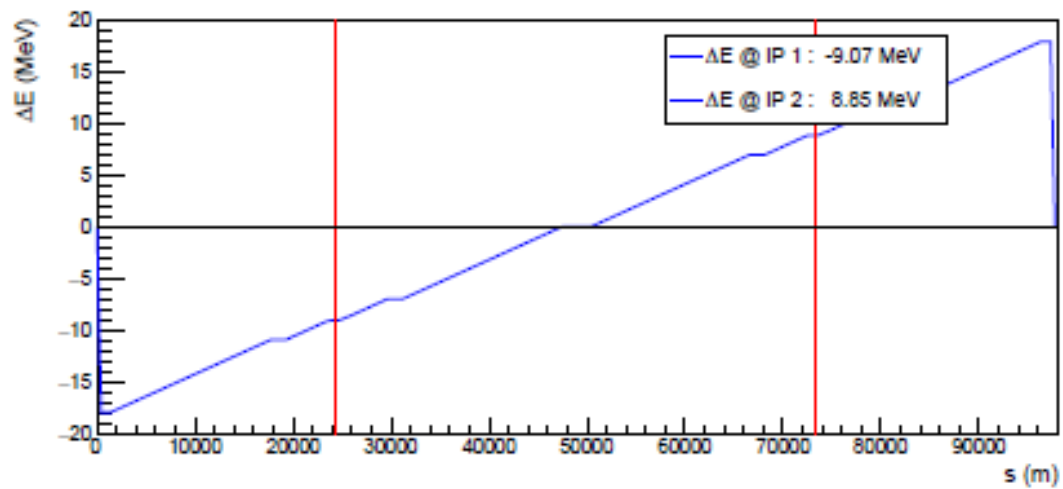
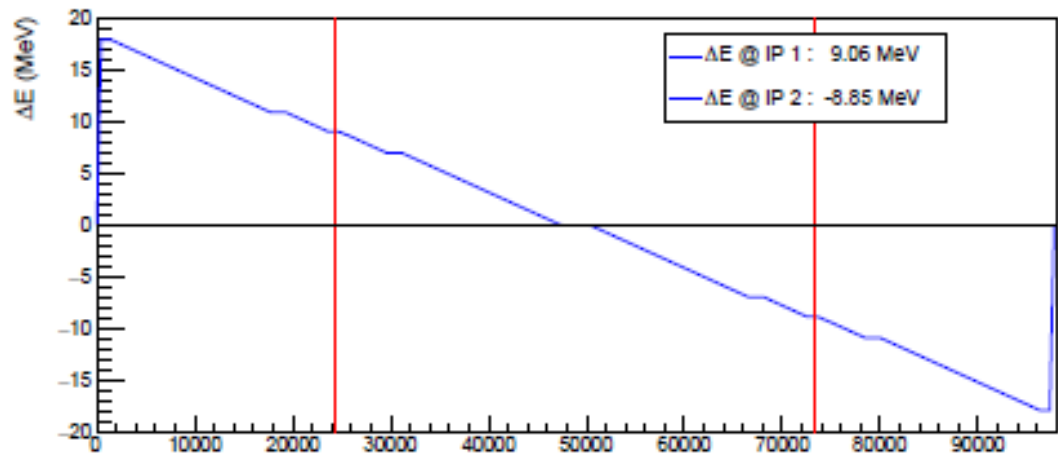
In the CDR we requested that the RF be in a **single place** to make sure that the RF energy gains do not lead to an uncertainty in the center-of-mass energy for the Z and WW threshold.

It is also essential for the $ee \rightarrow H$ experiment that the center of mass energy is the Higgs mass within a few MeV

i.e. RF in point H (or any single point) would be fine.

However if the e^+ RF is in one place and the e^- RF in an other, it is important (if the ECM is to be the same in all IPs) that no IP is in between the two.





$$\Delta E_{\text{cm}} = \Delta E_{e^+} + \Delta E_{e^+}$$

