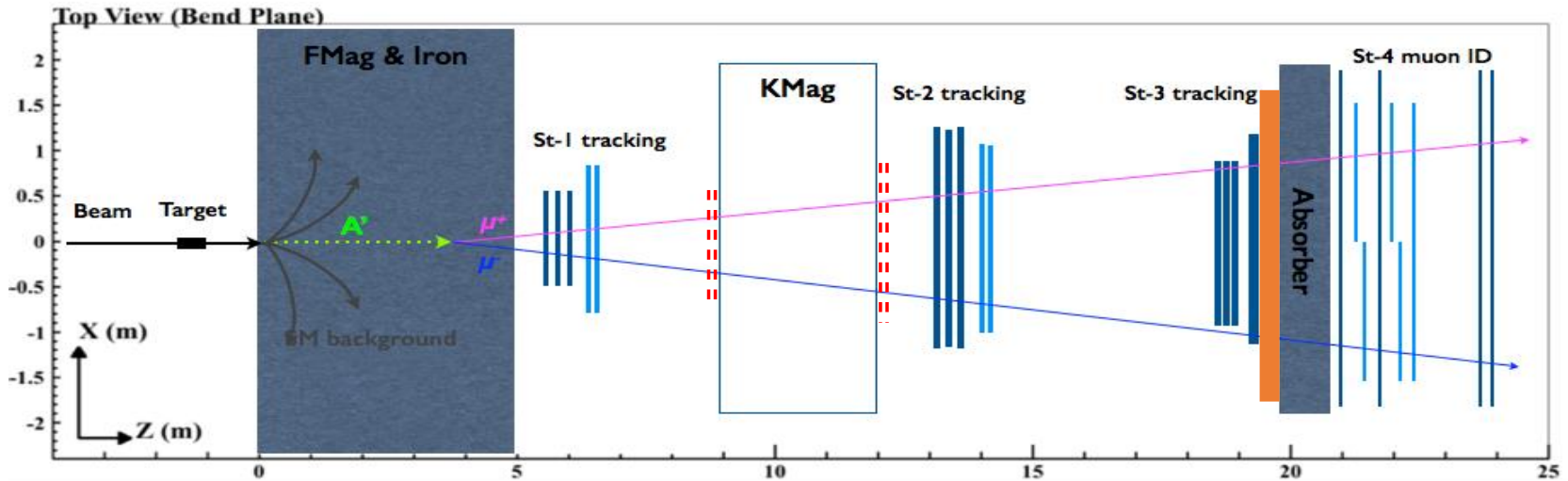


E906/SeaQuest upgrade plan



Fine-pitched vertex trigger

- Efficiently trigger on the dilepton pairs generated from downstream while suppressing the background rate
- Significantly enlarge the fiducial region from $\sim 2\text{m}$ to $\sim 6\text{m}$
- Supported by LANL LDRD-ER

EMCal/HCal

- Add $e^{+/-}$ and $\pi^{+/-}$ capabilities to SeaQuest spectrometer
- Extend the physics reach to A' from π^0 decay, dark ρ , and hadronic decay mode for heavier A'
- Re-commission the existing detectors (EMCal from E866 and PHENIX being considered)

***Modest upgrades with significantly increased physics reach.
Data taking expected to start in summer 2017!***

Extended sensitivity to $e^{+/-}$ and $\pi^{+/-}$ final states

