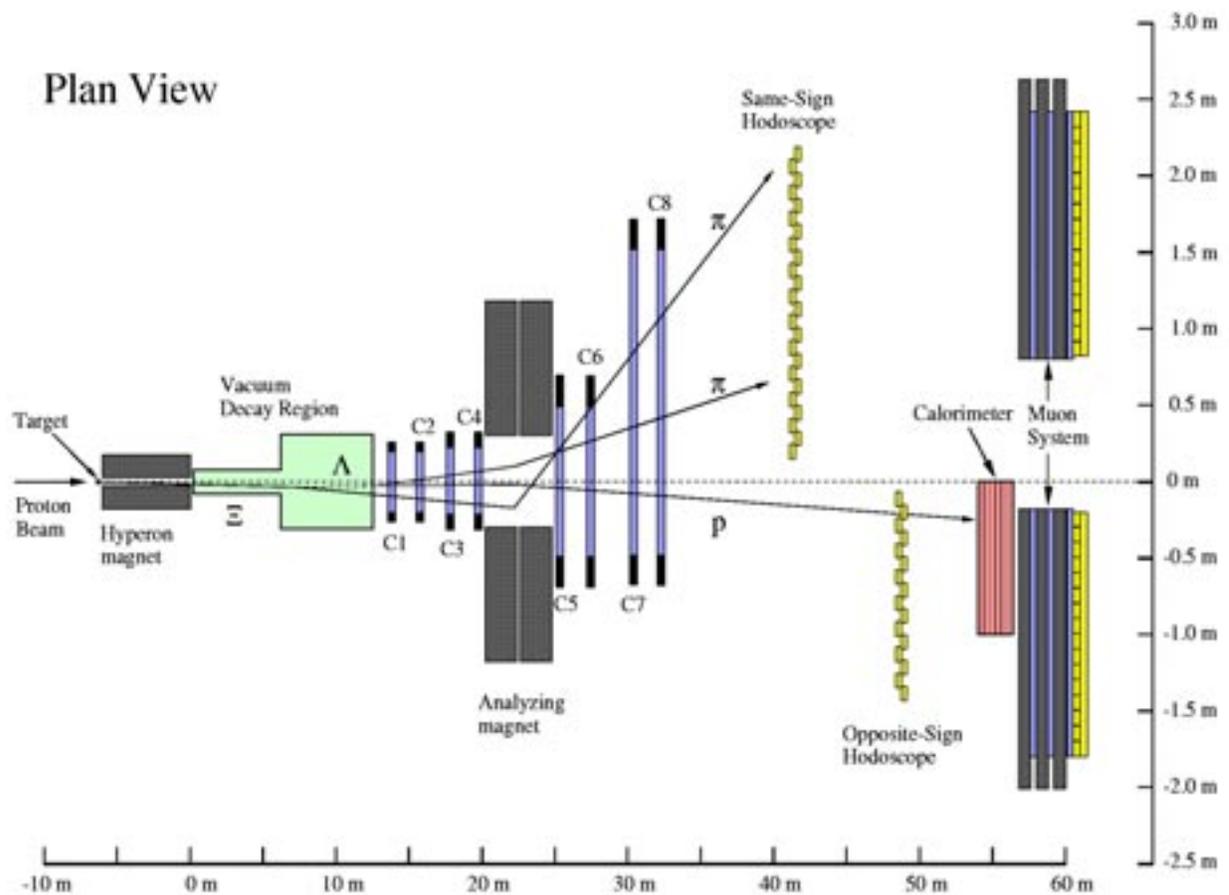
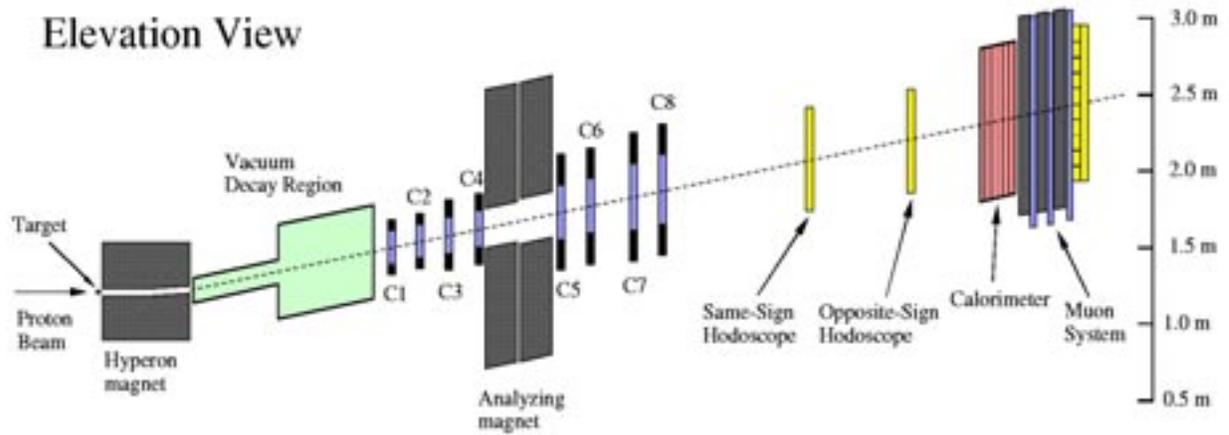


## Calorimeter Status Report

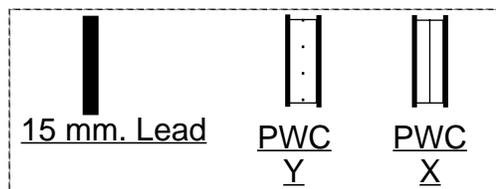
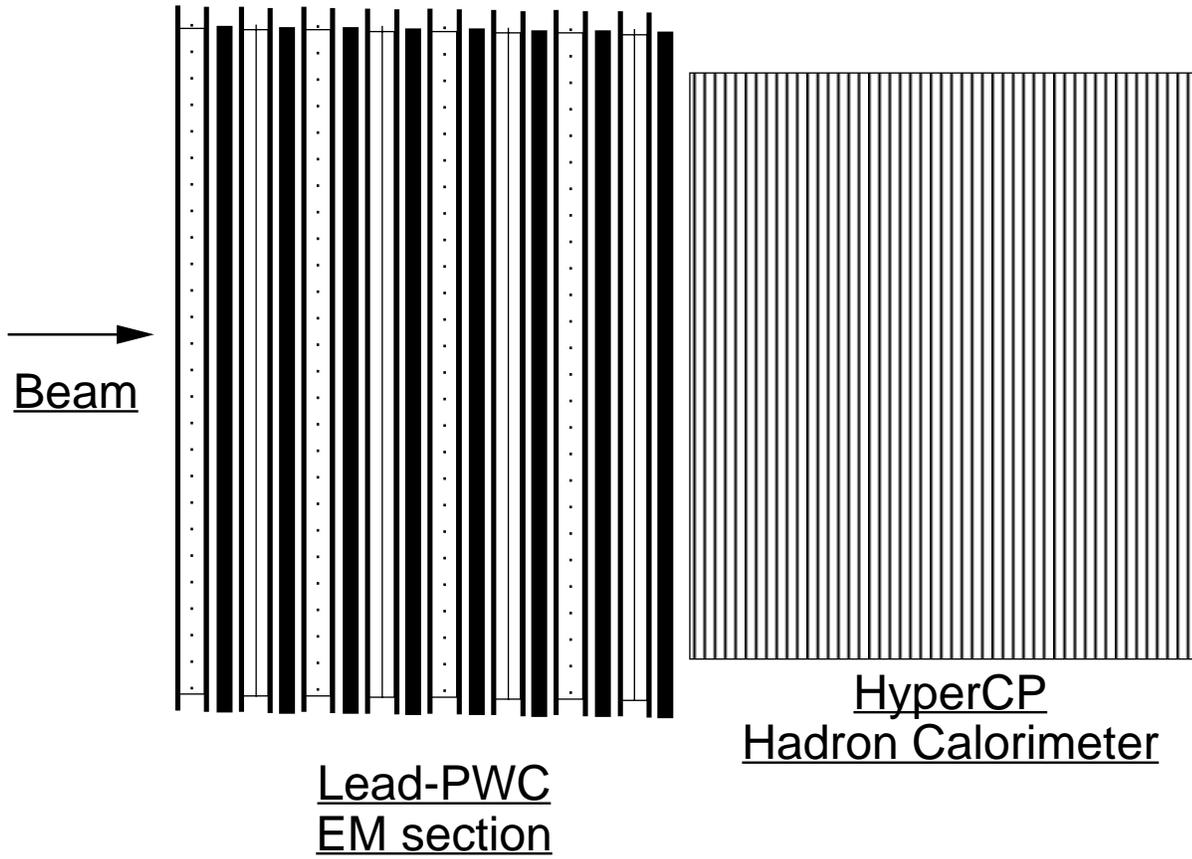
Our present plan is to use the HyperCP hadron calorimeter. This will be preceded by a modest EM detector consisting of PWC planes and lead plates.

The main argument for this design is low (almost zero) cost. The DOE has told us our budget at UM for fiscal 2002 will be cut 10%, to  $\approx$ \$110K. This will cover our postdoc's salary and 2 months' summer salary for Longo and Gustafson, and essentially nothing else. They have also made it very clear that we are being funded for HyperCP. Our bargaining position with DOE is especially weak because P907 is not an approved experiment.

# HyperCP Spectrometer



# Calorimeter Side View



## Some Issues to be Addressed

- The calorimeter height will need to be set to the E907 beam height. Some modification of the stand will be needed.
- In HyperCP there was a provision to move the cal on rails transverse to the beam. This can presumably be easily modified to allow longitudinal motion as needed.
- The EM section of the cal is mainly for distinguishing neutrons from photons. Usually we will only see one photon from  $\pi^0$  decays so it is not obvious how useful the EM energy/position measurements will be in reconstructing the  $\pi^0$  spectrum.