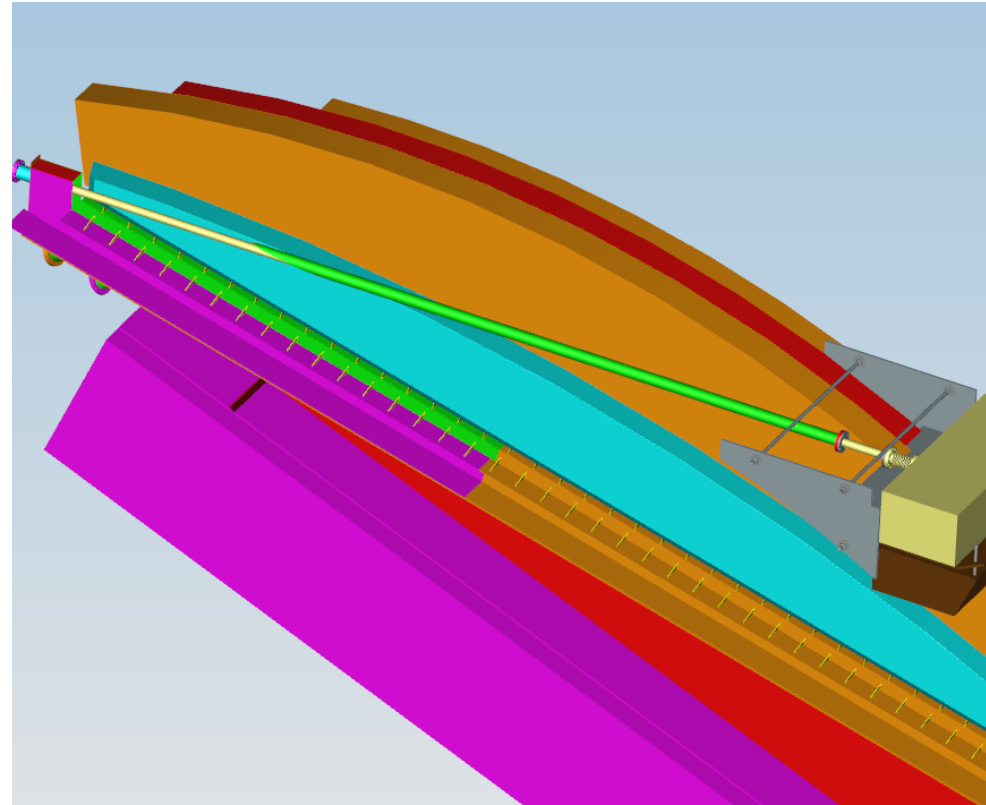


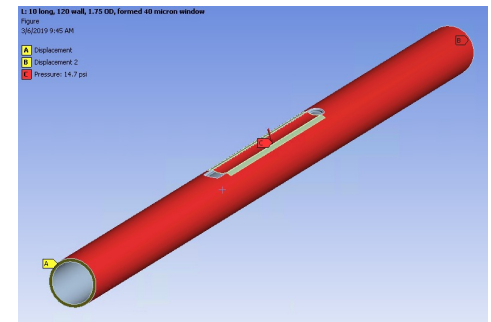
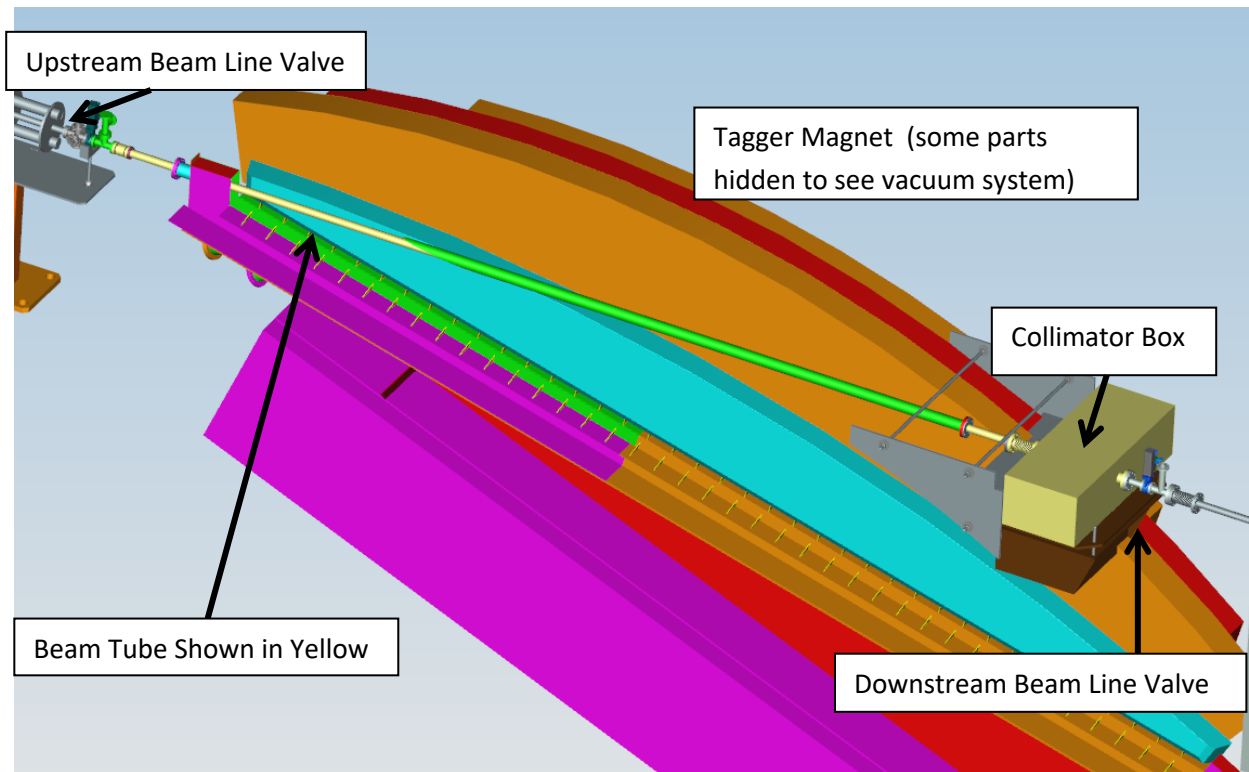
Modified tagger

PRad Collaboration meeting

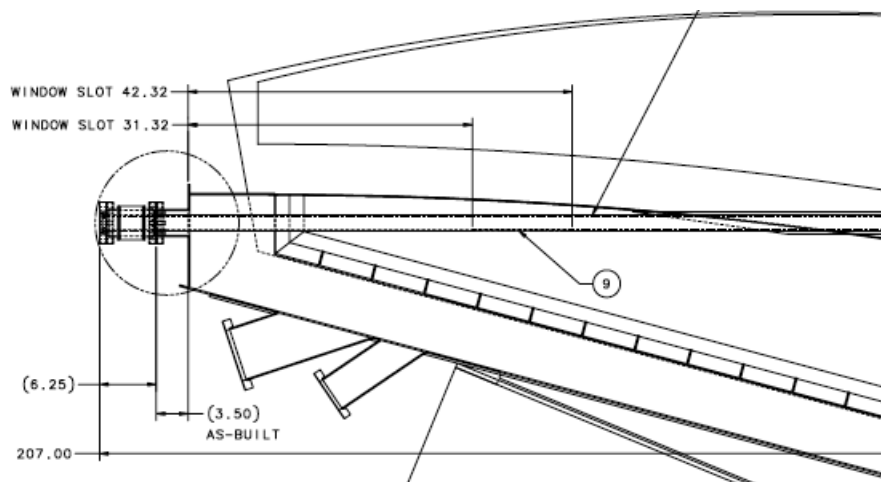
November 11th, 2024

E. Pasyuk

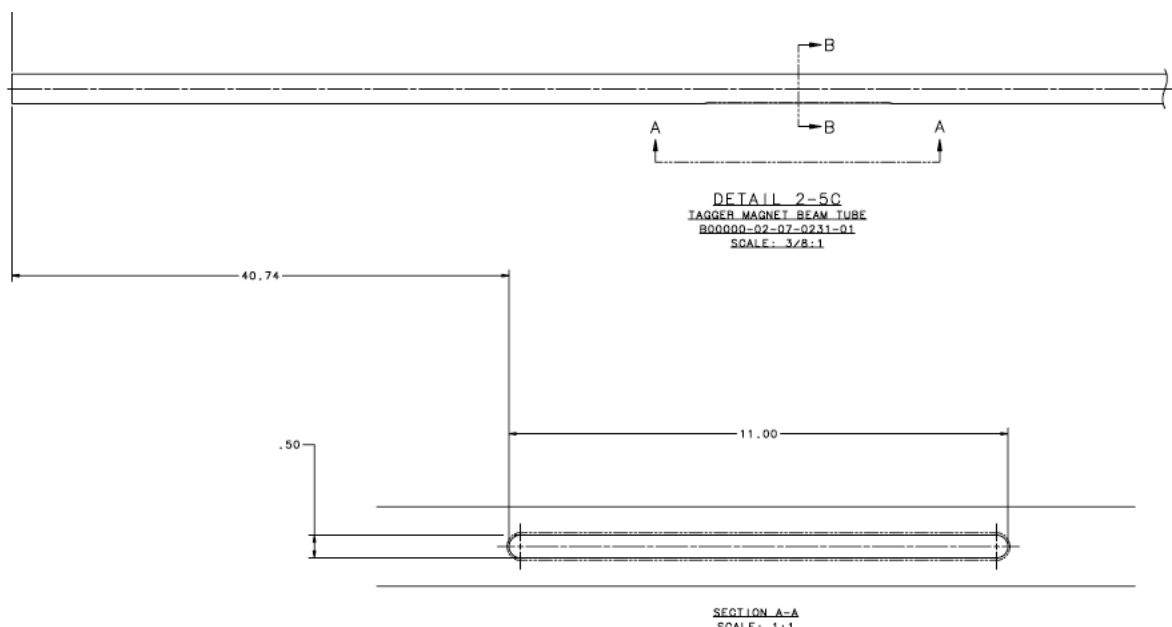




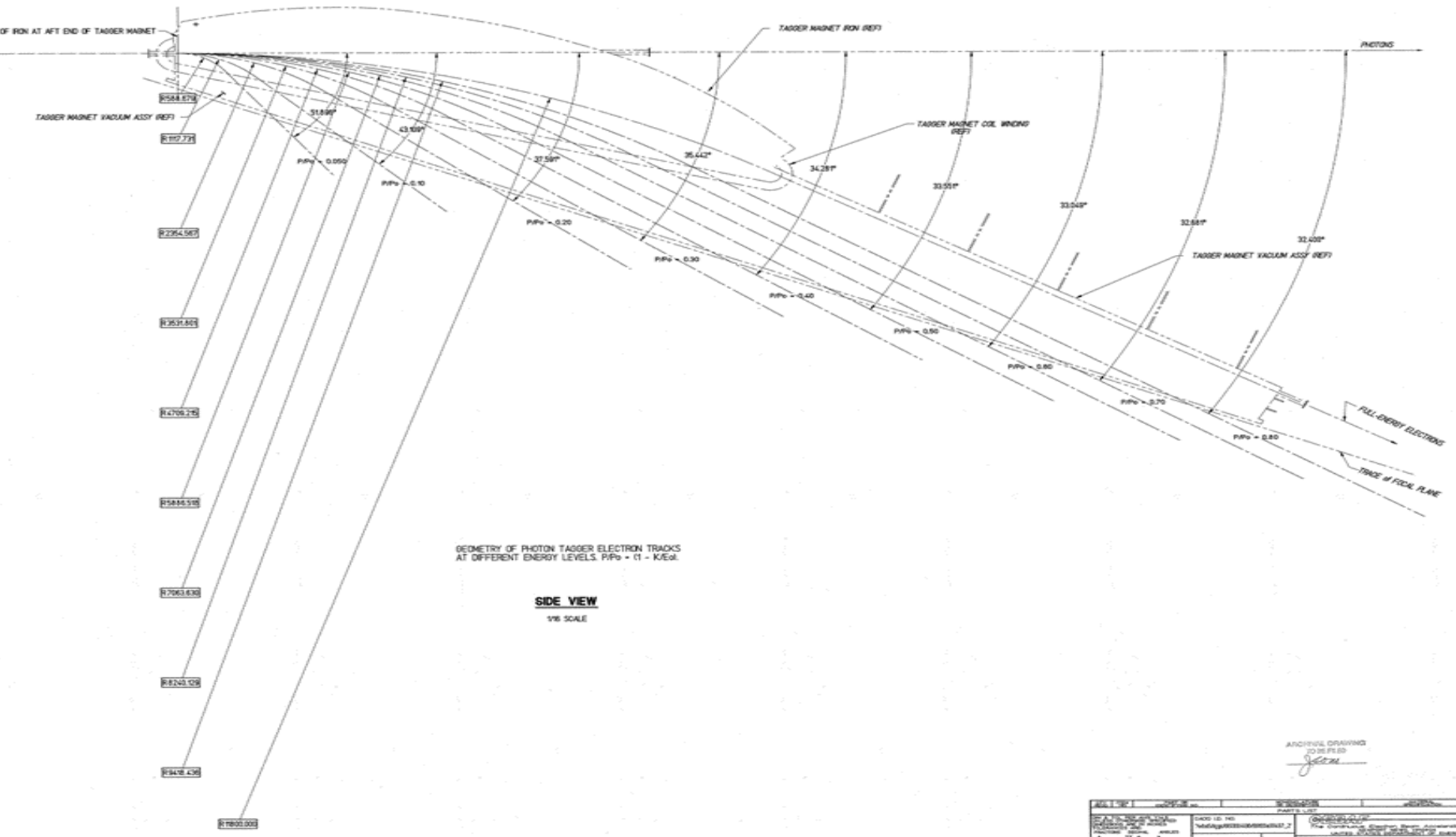
Tagger beampipe

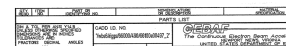


Energy losses
Pipe OD is 1.75"
Window 40 μ m Al
Average angle 30 mrad
Effective thickness 1.3 mm
Al $X_0=8.897$ cm
 $x/X_0=0.015$
Energy losses $\Delta E/E=1.5\%$



Multiple scattering
Assuming 2.2 GeV beam
For $E_\gamma=0.95E_0$ $E_e=110$ MeV
 $\Theta_0=12.6$ mrad = 0.7°





Suggested ranges

