# Estimates of Halo Rates on the Electron Detectors

Hall A saw a 10-50 KHz/$\mu$A rate due to the beam halo on the closest strip when the electron detector was placed 3 mm from the beam center. At 6 mm from beam center the rates dropped to 0.3 KHz/$\mu$A. In Hall C a halo detector placed 11 mm from beam center and having an acceptance of about 10% of the Hall A electron detector sees a rate of 20Hz/$\mu$A, which implies a rate of 0.2 KHz/$\mu$A on the electron detector. The Hall C measurement was done at 700 MeV beam energy.

The Hall C electron detector will be $\sim$ 10 mm from the beam center, thus a 0.2KHz/ $\mu$A rate should be expected. This implies a rate of $\sim$ 40 KHz when running at full 180 $\mu$ A current.

Assuming a 1 GeV beam, and 1000 hours of running and 1 mg as the weight of the detector, this would imply a dose of $\sim$ 2.5 MRad.