

Summary of past Hall A energy measurements

Date	Measured	HallA:p	Scale factor
Mon, 10/17/2016 Log (dispersive)	2.222(1)	2.218(2)	1.0018
Tue, 12/13/2016 Log (acromatic) Log (dispersive)	6.427(3)	6.407(6)	1.003
Tue, 12/20/2016 Log (dispersive)	8.520(4)	8.497(8)	1.003
Mon, 11/28/2016 Log (acromatic) Log (dispersive)	10.587(6)	10.589(10)	Need saturation and sync radiation

Summary of Hall C energy measurements

Date	Measured	HallA:p
Tue, 12/12/2017 Log	2221.8 +/- 2.36	2217.42*1.0018= 2221.4
Thu, 01/18/2018 Log	6430.285 +/- 2.9870	10589.9 (need sync corrections?)

Synchrotron Radiation in Hall C Arc

$$U_{o,electron} (keV) = \frac{e^2 \gamma^4}{3\epsilon_0 \rho} = 88.46 \frac{E(GeV)^4}{\rho(m)}$$

Hall C $\rho = 40.09034$ meters

Beam energy (GeV)	Radiation energy (MeV)
10.6	27.85
6.4	3.7
4.4	0.83