

**Proposal:** PR12-06-106 Hall-B

**Title:** Study of Color Transparency in Exclusive Vector Meson Electroproduction off nuclei.

**Contact:** K. Hafidi

**Description:** The proposal seeks to measure the  $Q^2$  dependence of Color Transparency in incoherent electroproduction of  $\rho^0$  from  $1D_2$ , C, Fe, and Sn targets at fixed coherence length.

**Beam time request** 40 days

**Tune up time included?** No

**Configuration changes included?** No

**Electron beam energy:** 11 GeV

**Electron beam current/luminosity:**  $50\text{nA}/10^{35}\text{cm}^{-2}\text{s}^{-1}$

**Electron beam polarization:** No

**Targets:** Liquid  $D_2$ , C, Fe, Sn

**Instrumentation:** Standard CLAS12 for electron running

**Trigger:** Scattered Electron

**Special requirements/requests:** None

**Comments:**

The proposal uses a setup similar to the one used in the lower energy experiment eg2 with CLAS. That experiment ran with an inclusive electron trigger. There are no specific requirements for the trigger provided in the proposal. Given the planned DAQ properties for CLAS12, is an inclusive electron trigger sufficient, or is there a need for a more restricted trigger, e.g. requiring an additional pion?