Minutes of the bi-weekly Hall A G_E^n meeting
August 27, 2003

Present: Todd Averett, Gordon Cates, Donal Day, Doug Higinbotham, Tim Holstrom, Kathy McCormick, Igor Rachek, Bodo Reitz, Albert Shahinyan, Jaideep Singh, Bogdan Wojtsekhowski

- The main topic of discussion was the polarized helium target system to be used for G_E^n. A review of the neutron detector status was also given and the electronics necessary for the experiment were catalogued. The agenda for the next collaboration meeting on Oct. 23-24, 2003 was discussed.

1. Target Status (Gordon)
   The status of the target tests at UVA was presented:
   - A laser combiner system has been set up at UVA for testing. The system consists of output fibers from the pumping lasers which are fed into a combiner and then a homogenizer. First tests found that the light wasn't well mixed, but the addition of the homogenizer helped ameliorate this problem.
   - The system has been tested with 140 W of power as of now, combining 2-30 W and 2-40 W lasers.
   - The transmission length in the test setup is 2-3 meters. We need on the level of 50 m to use this system in the Hall. Some research is needed into how long the laser output fibers can be made.
   - Tests on the power loss in the system need to be made, as well as long term stability tests.
   - Discussion ensued on the subject of Rubidium/Potassium hybrid targets. They could be run with less laser power because the polarization transfer to the helium is more efficient, however they have to be run at much higher temperature. Gordon is going to look into getting some Rb/K mixture and try to make a target cell with it.

2. Electronics Status (Albert)
   The electronics necessary for the experiment were catalogued. The items that we still need are:
   - Camac Discriminators 3412: Need 42, have 34
   - Phillips Discriminators 706 D: Need 42, have 33
   - Relay Racks: Need 10, have 6

   If you have any of these items available for loan, let Bogdan or Kathy know. (The above list is updated to take into account items which can be loaned by UVA).

3. Please note that the next collaboration meeting will be held at JLab on Oct. 23-24, 2003. The agenda is under consideration, so if you have any suggestions for speakers, please let Kathy know.