Minutes of the bi-weekly Hall A G_E^n meeting
June 9, 2004

Present: Bogdan Wojtsekhowski, Kathy McCormick, Albert Shahinyan, Dick Madey, Andrei Semenov, Al Gavalya, Ameya Kolarkar

1. Target Design (Al)
   - Pick-up coils are being wound in the shop
   - The glass has been ordered for the oven. We don't have any extra to test coating the glass, so we may have to order some more samples
   - Al needs to design pretty much everything else. He will be working on this when he can.
2. Neutron Detector Layout (All)
   The simulations of the neutron detector by Irina Semenov pointed out an unwanted feature of the design. In the design, the neutron scintillator bars are mounted to plates of steel which also act as detector support elements. These plates stretch the full width of the detector, about 4 m, which is bigger than the biggest active area of the scintillator bars we're using, which is 1.8 m. In Irina's simulation, it was found that many of the events which will register in the neutron bars don't hit the active area of the bars, but hit the steel support elements which stretch out on either side of the bars. Several ways to suppress these events were discussed, including cutting out holes in the steel supports to dramatically decrease the amount of extra material around the bars and adding steel collimators in front of the neutron detector to try to collimate out the events which would hit these detector side walls. Also, most likely any of the events which still derive from these side plates should be able to be cut out in the analysis by looking at the measured time of the signal's arrival versus its expected time.
3. Target (Ameya)
   Working on frequency sweep NMR.