Kinematic 2 Results

Tuesday, September 09, 2008 1:16 PM

B - Results -191351 Proton Asymmetry (2)-0.00292133 29409 Neutron Asymmetry (2)-0.0407018 294 Background Asymmetry (2)-0.0204082 average polarization 0.4925 average q2 2.48218 errors are 0.00583123 0.0583212 Corrected Asym -0.0409067 with error 0.00591948 % 0.144707 0.246304 ffratioerror 0.0362699 % 0.147256 -0.0490572 dil corr asym 0.00705046 % 0.143719 The Ts -0.0418546 0.837839 0.0352783 -0.692817 -0.0297794 0.574179 If the Physics Asymmetry is -0.13316 with error 0.0211968 % 0.159182 lambda is -0.110593 with error -0.027152 % 0.245512 -0.0967997 gmn 0.0237809 gen is 0.0107054 with error 0.00371819 % 0.347319

This is with a dilution factor of 0.839642 +- 0.0354916. For kin2a I am getting .69 or so (with unreasonable uncertainty), so I am looking in more detail at the runs used to do that. Total neutral events from kin2a + kin2b = 53k or so, which is unexpectedly low from kin2a. This is still being investigated (60-70k is what is expected?).

A - Results - Kin2b's Dn factor 158641 Proton Asymmetry (2)0.000775336 23412 Neutron Asymmetry (2)-0.0363916 330 Background Asymmetry (2)-0.0545455 average polarization 0.4 average q2 2.48721 errors are 0.00653553 0.0550482 Corrected Asym -0.0361321 0.00667552 % 0.184753 0.246304 ffratioerror 0.0362699 % 0.147256 -0.0433115 dil corr asym 0.00795071 % 0.18357 The Ts -0.0393172 0.84105 0.0331926 -0.695102 -0.0280614 0.575811 If the Physics Asymmetry is -0.144751 with error 0.0286712 % 0.198073 lambda is -0.127689 with error 0.0372967 % 0.29209 -0.0967997 gmn 0.0237809 gen is 0.0123603 with error 0.00471752 % 0.381668

For Kin2 b - All graph units in GeV/c



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