

Kinematic 2a Results

Monday, June 15, 2009
2:52 PM

With a cut of $|W-0.825| < 0.225$

I get roughly the same Purity Factor and 8287 counts.

Raw asym	-0.0276	0.0110		0.397
Ave asym	-0.0734	0.0290	0.0039	0.395
Background Dil	0.9914	0.0369	0.0127	
Phys asym	-0.1366	0.0552	0.0407	0.404
Lambda	-0.1416	0.0699	0.0516	
GEn	0.0133	0.0066	0.0049	0.494

A huge difference. I need to change the invariant mass cut and reanalyze though.

Changing the mass cut:

$|W-0.9| < 0.2$

Note that this is similar to the other cuts, the earlier results weren't very consistent.

R H	0.0197	0.0038
R He	0.0997	0.0024
R N	0.1954	0.0357
Purity	0.7982	0.0832
Purity (1.2)	0.7556	0.0832 (not corrected)
NN	0.3774	0.0950

This is 9356 counts at Q2 of 2.4752

Raw asym	-0.0331	0.0103		0.312
Ave asym	-0.0879	0.0273	0.0046	0.310
Background Dil	0.9917	0.0336	0.0125	
Phys asym	-0.1717	0.0556	0.0398	0.324
Lambda	-0.1925	0.0730	0.0523	
GEn	0.0185	0.0070	0.0050	0.379
Target	0.3785	0.02		

Kin2 B was: (21057 events at Q2 of 2.4793)

Raw asym	-0.0421	0.0069		0.164
Background Dil	0.9945	0.0274	0.0031	
Purity Factor	0.8265	0.0341	9%	
Target	0.4932	0.02		
Lambda	0.1785	0.0355	0.0431	
GEn	0.0170	0.0033	0.0041	0.199