Weekly Updates On nu e Meeting

Closure Check For Fitting The Flux

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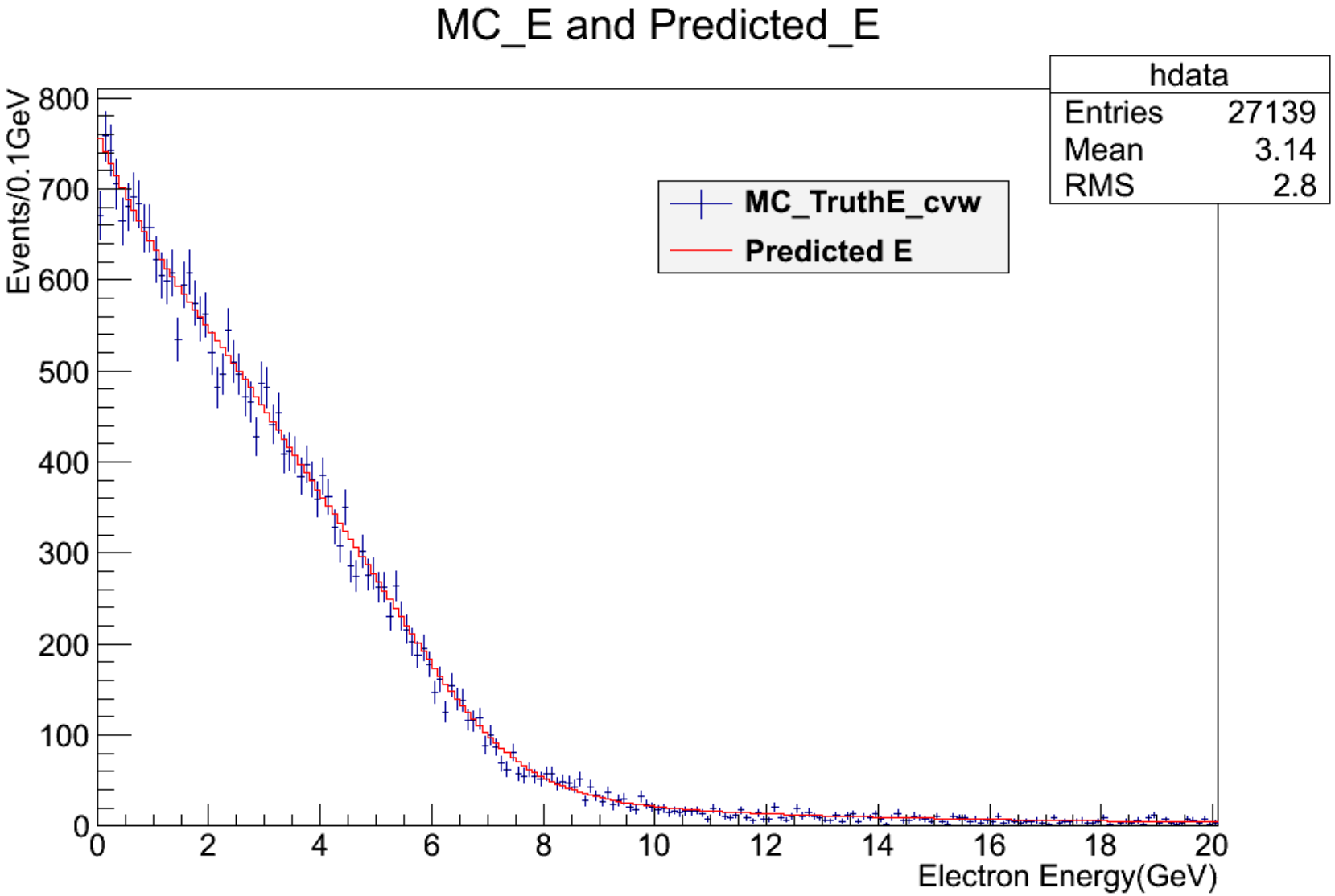
New Fitting For 1 Sudo Data Sample

Poisson Random Generator and Wider Bin(0.2Gev)

	a1	m1	s1	a2	m2	s2	a3	m3	s3
True	1.728e-4	5.518	1.601	6.177e-5	3.061	0.738	8.656e-6	9.232	2.814
OldFit	1.647e-4	5.285	1.522	5.638e-5	2.340	0.642	6.243e-6	8.323	2.123
OldError	0.370e-4	0.899	0.343	13.176e-5	5.122	1.788	1.414	0.179	1.621
NewFit	1.677e-4	5.328	1.545	6.263e-5	2.548	0.700	6.808e-6	8.654	2.436
NewError	0.422e-4	0.968	0.448	12.554e-5	4.387	1.698	1.139e-6	1.414	3.336

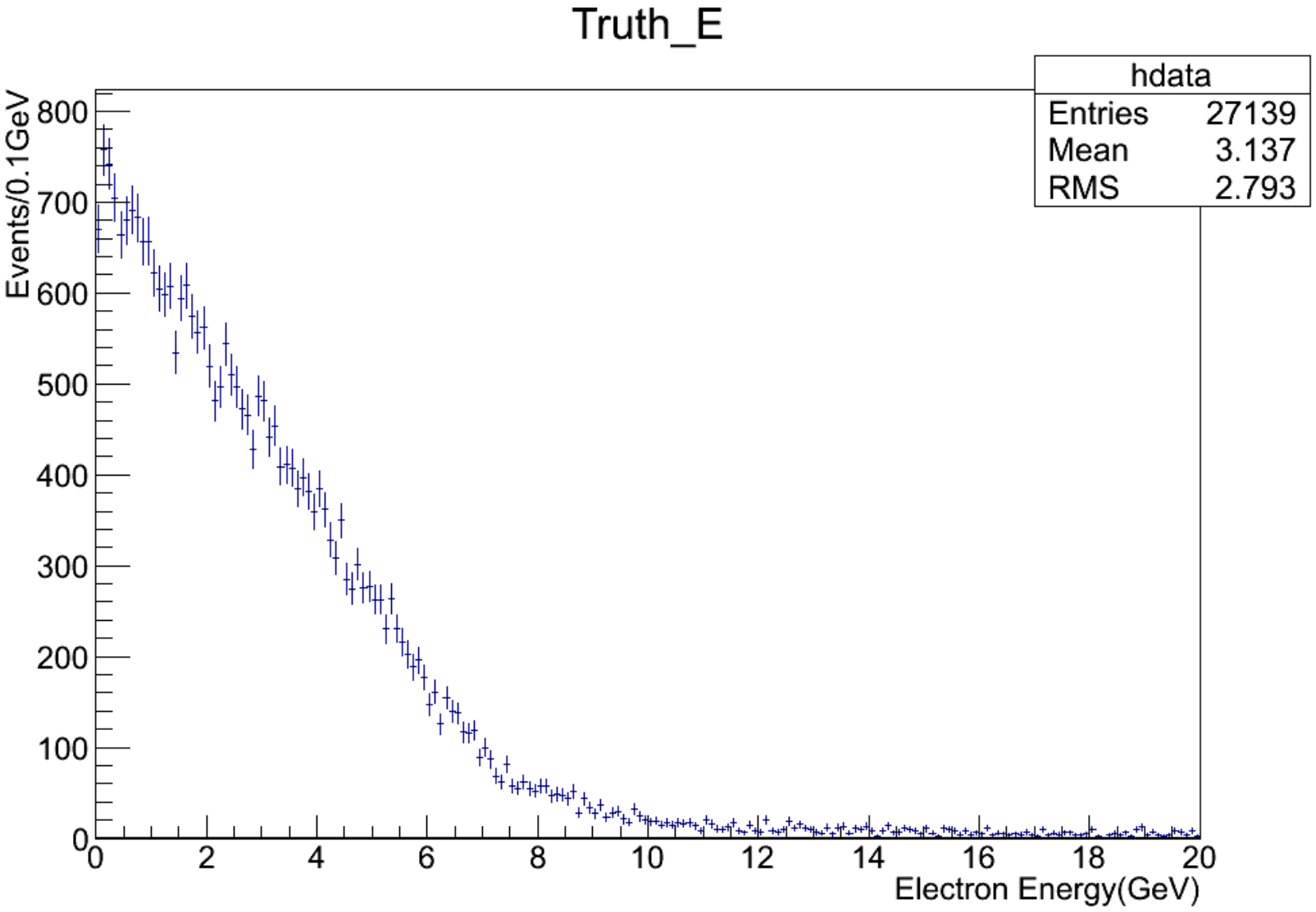
Compare Ke Prediction and Genie Sample



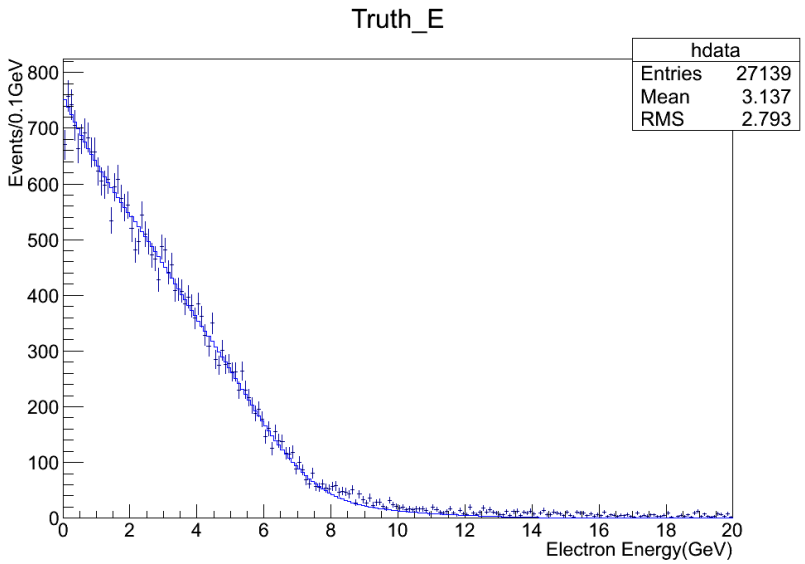
chi^2=1.287 (Range 0-12GeV)

Fitting Genie Sample

200e20 POT, CVW, 0.1GeV bin size



Fitting a1



Function Flux: 1.728e-04

TMinuit Fit: 1.765e-04

Fitting Error: 0.139e-04

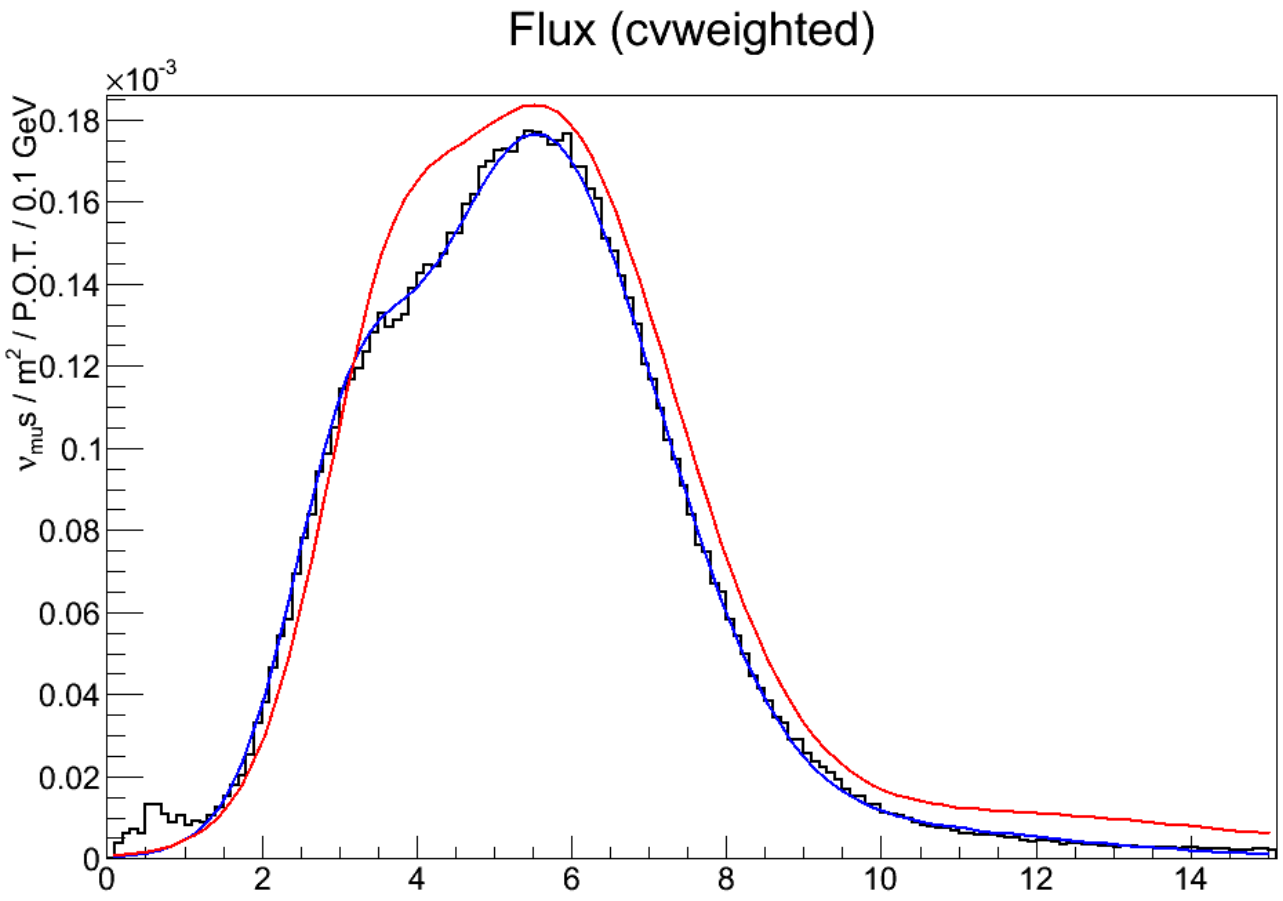
repeat for other 8 pars

Fitting 9 Parameters From Genie Sample

200e20POT	a1	m1	s1	a2	m2	s2	a3	m3	s3
FluxFunc	1.728e-4	5.518	1.601	6.177e-5	3.061	0.738	8.656e-6	9.232	2.814
TMinuitFit	1.765e-4	5.647	1.654	6.646e-5	3.503	0.816	11.661e-6	10.681	3.801
FittingError	0.139e-4	0.296	0.286	4.874e-5	2.193	0.551	1.414	0.040	0.092

Fitted Flux...

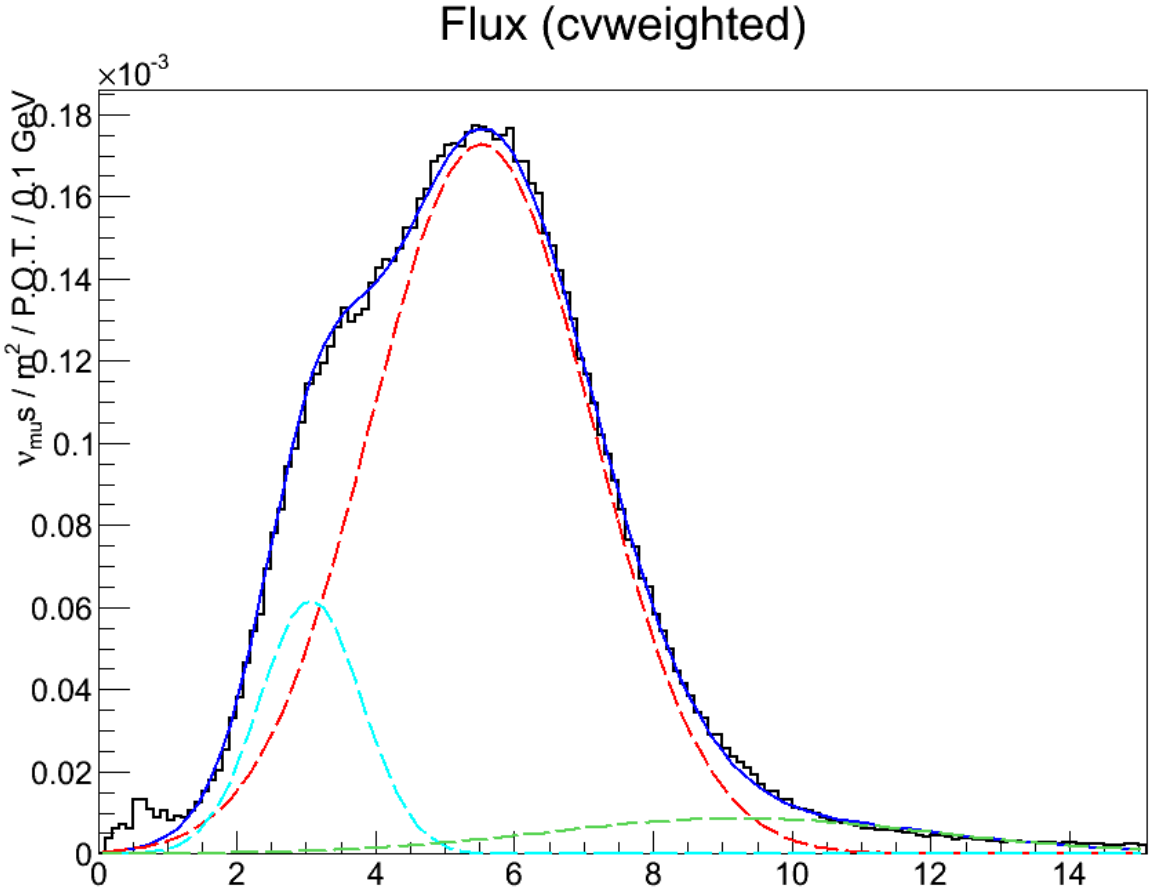
Red Curve...-_-



Backups

Parameterize New Flux Histogram

3 Gaussian, 9 parameters



par	value
a1	1.728e-04
m1	5.518
s1	1.601
a2	6.177e-05
m2	3.061
s2	0.738
a3	8.656e-06
m3	9.232
s3	2.814