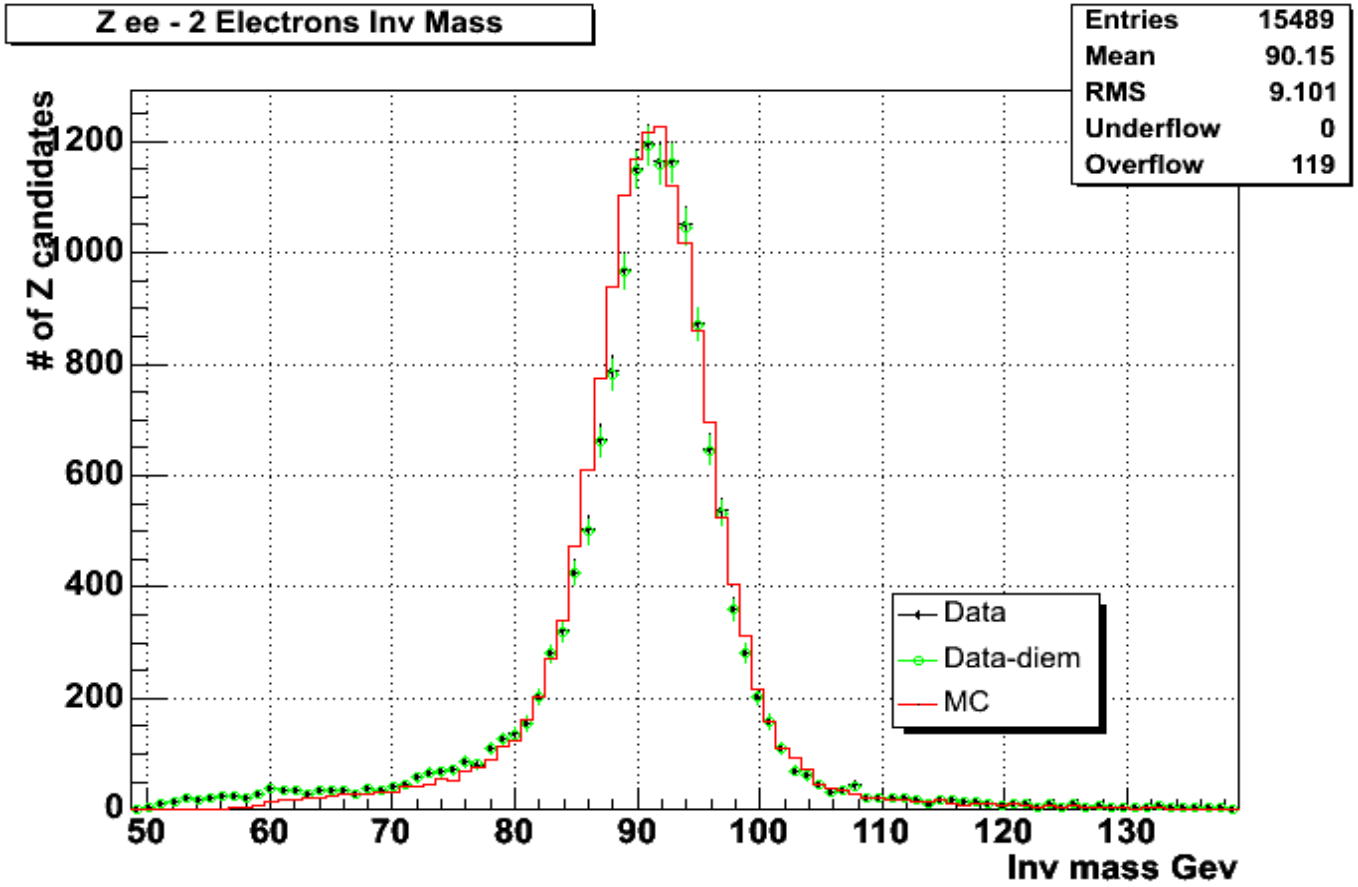
Z -> e e + X Pass 2

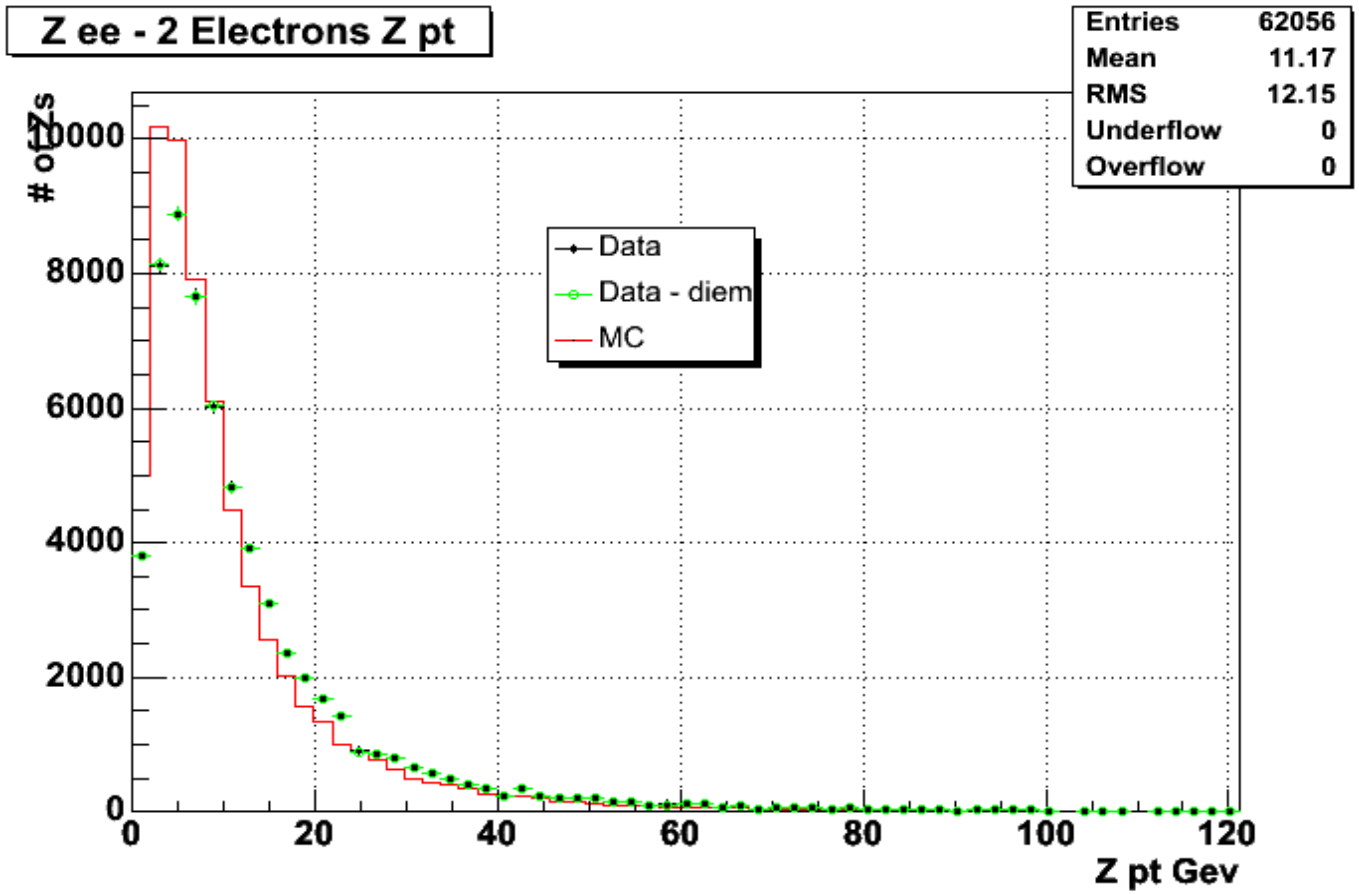
Plots contain MC, EM1TRK skim, and Diem skim

James Heinmiller
3DEC04
Higgs Multi Lepton Meeting

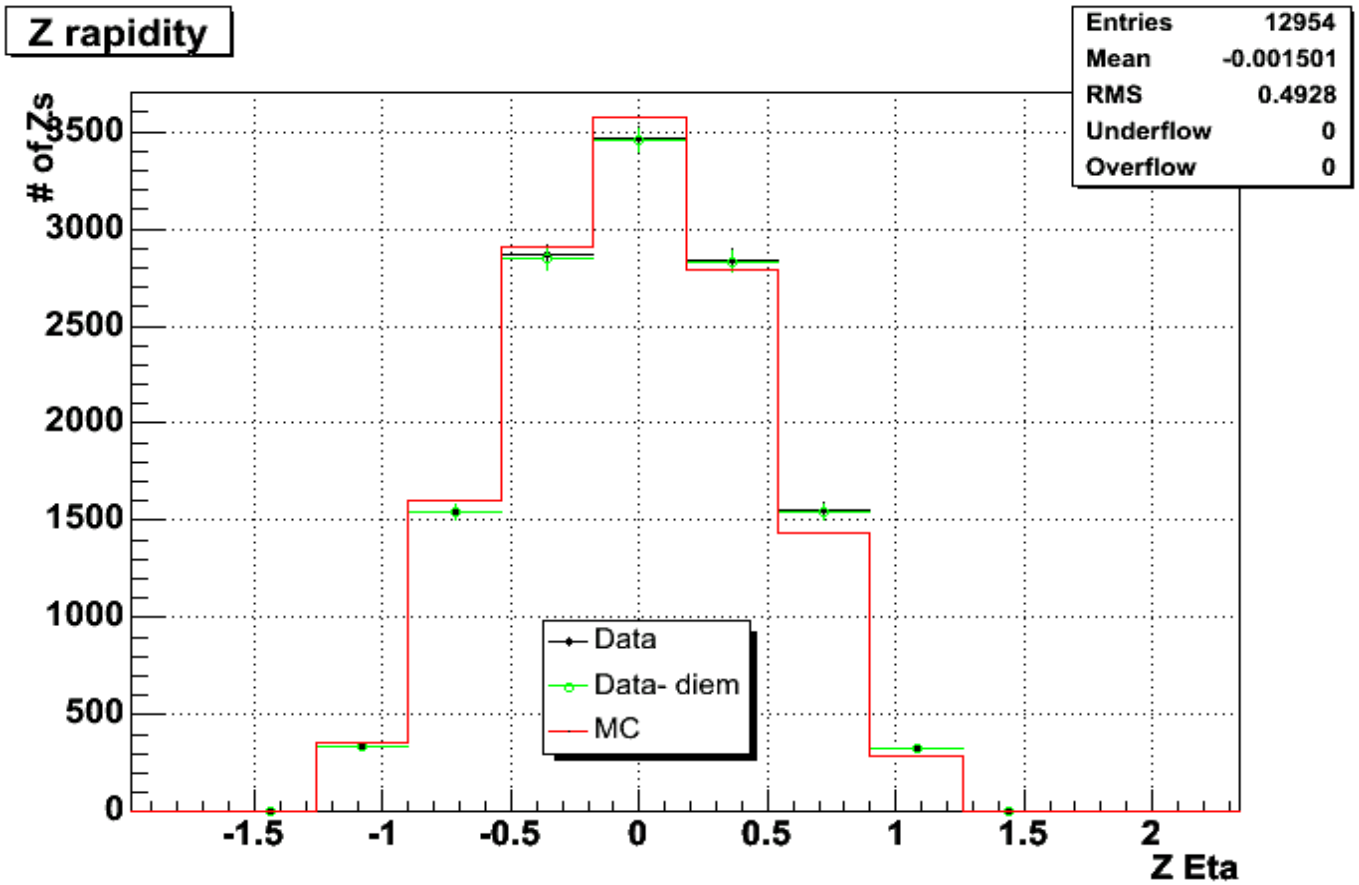
Invarient Mass of electrons



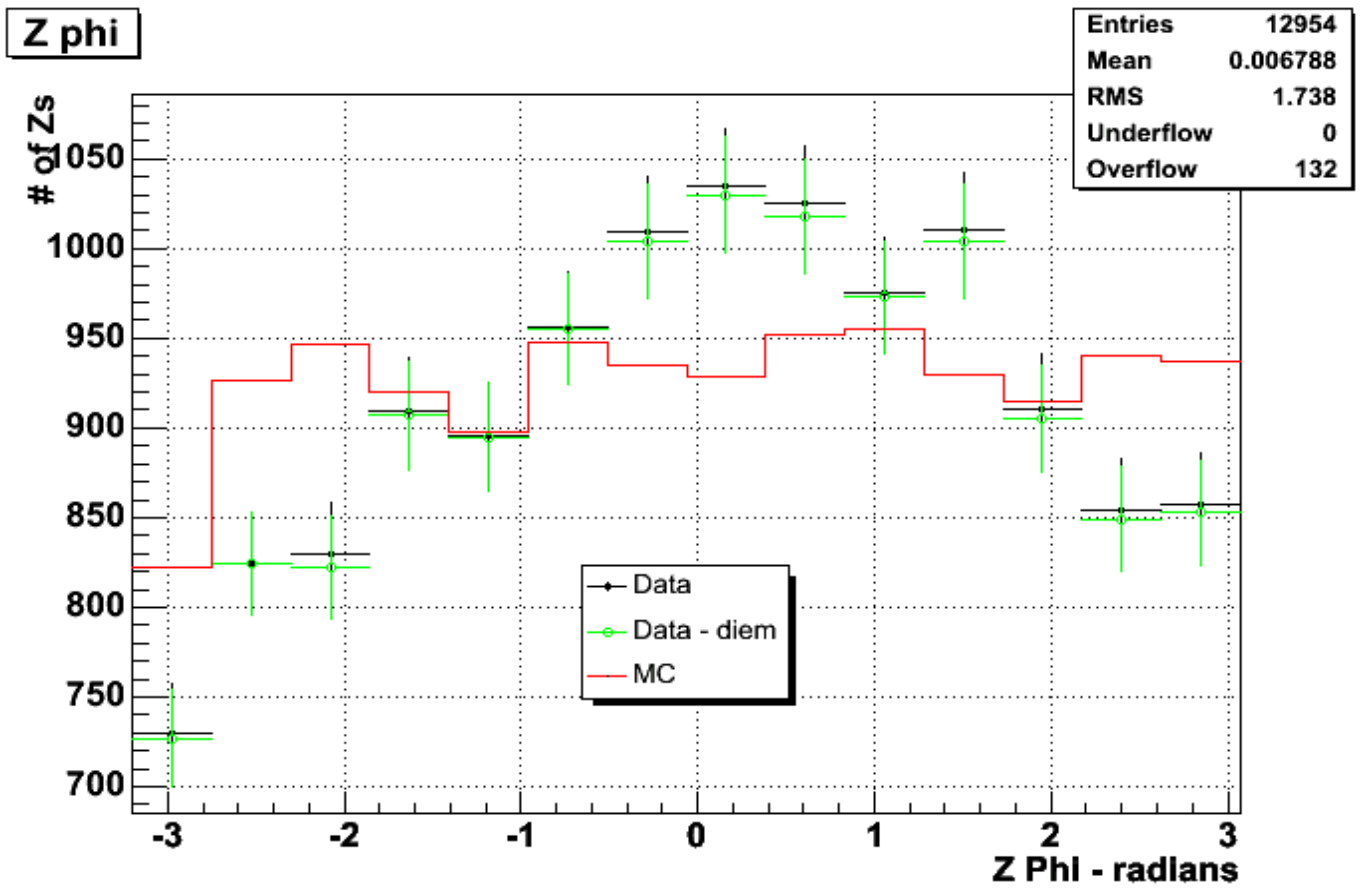
Z pt


Z ee - 2 Electrons Z pt
Entries 62056
Mean 11.17
RMS 12.15
Underflow 0
Overflow 0
Data
Data - diem
MC
# of Zs
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
Z pt Gev

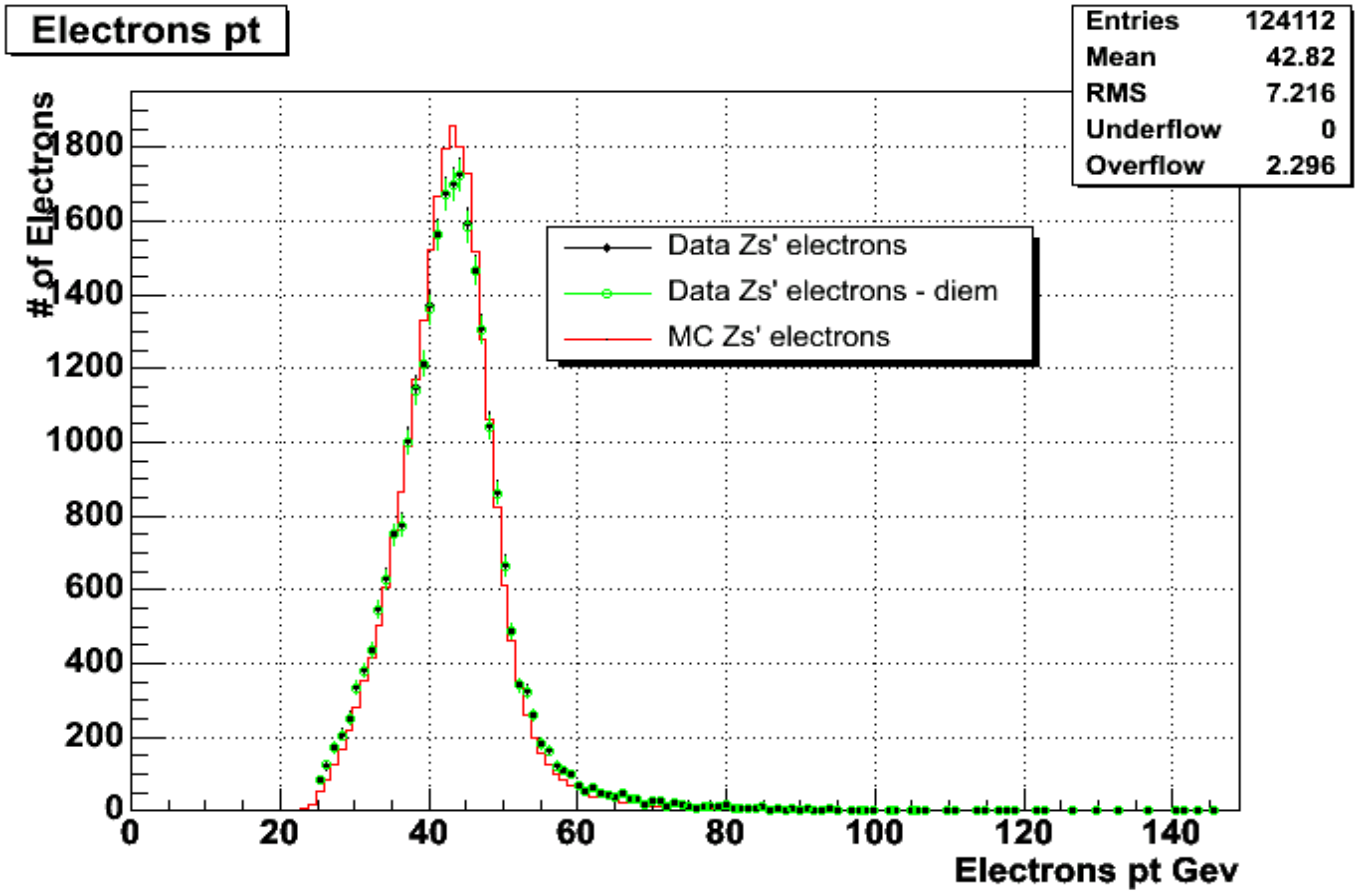
Z rapidity


Z rapidity
Entries 12954
Mean -0.001501
RMS 0.4928
Underflow 0
Overflow 0
# of Zs
3500
3000
2500
2000
1500
1000
500
0
-1.5
-1
-0.5
0
0.5
1
1.5
2
Z Eta
Data
Data- diem
MC

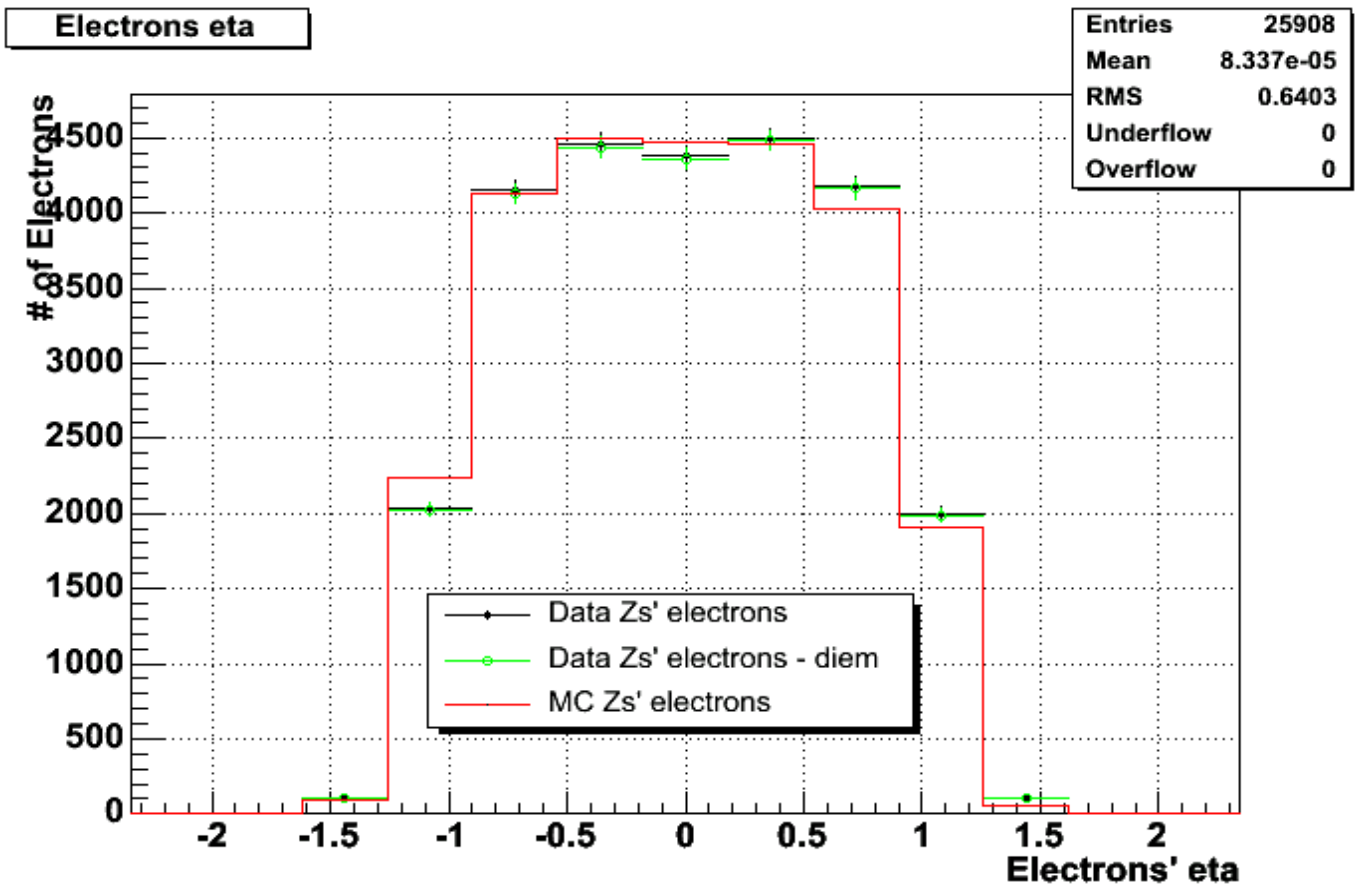
Z phi


Z phi
Entries 12954
Mean 0.006788
RMS 1.738
Underflow 0
Overflow 132
# of Zs
1050
1000
950
900
850
800
750
700
-3
-2
-1
0
1
2
3
Z Phi - radians
Data
Data - diem
MC

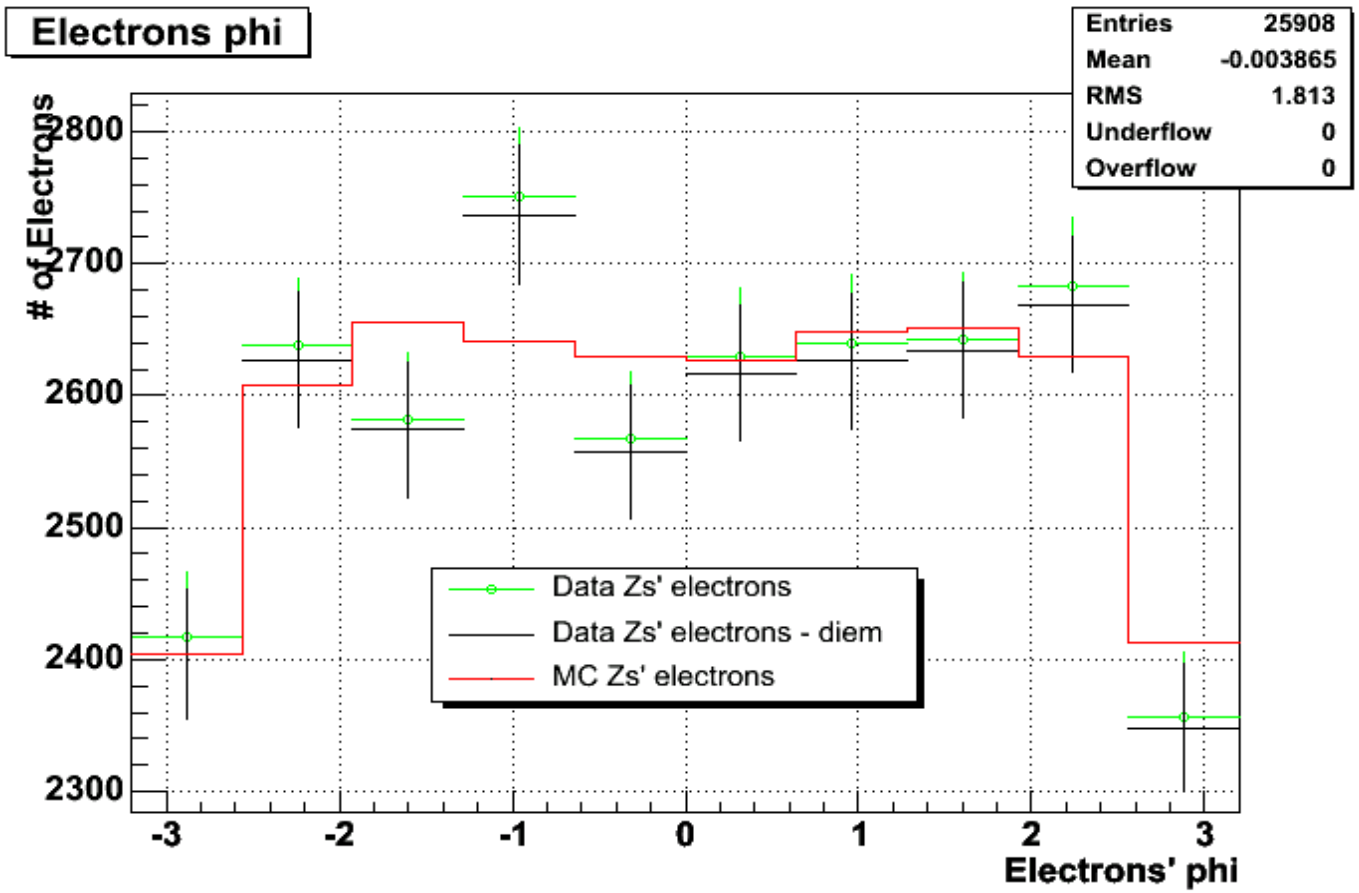
Both Electrons pt



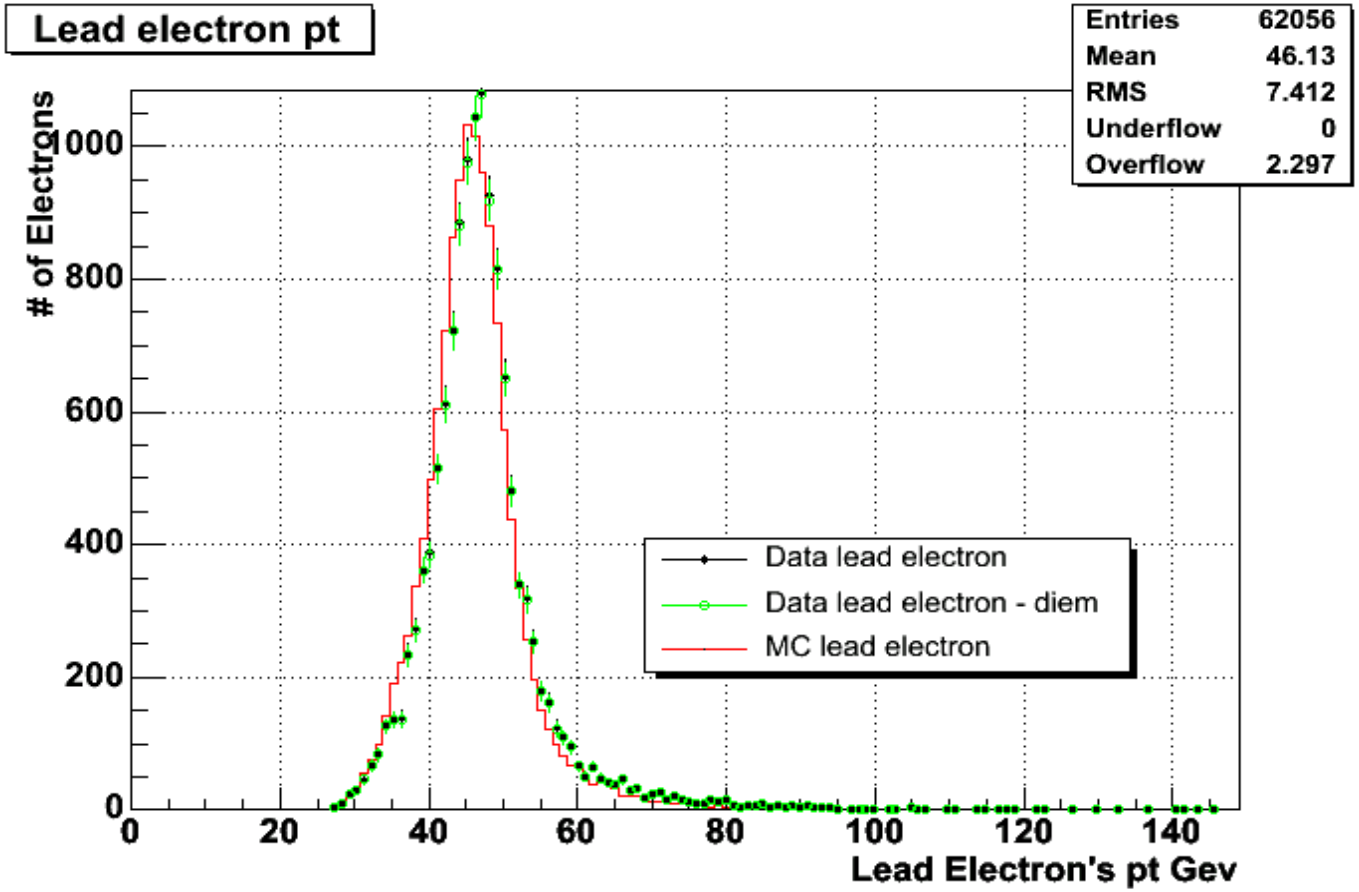
Both electrons Eta



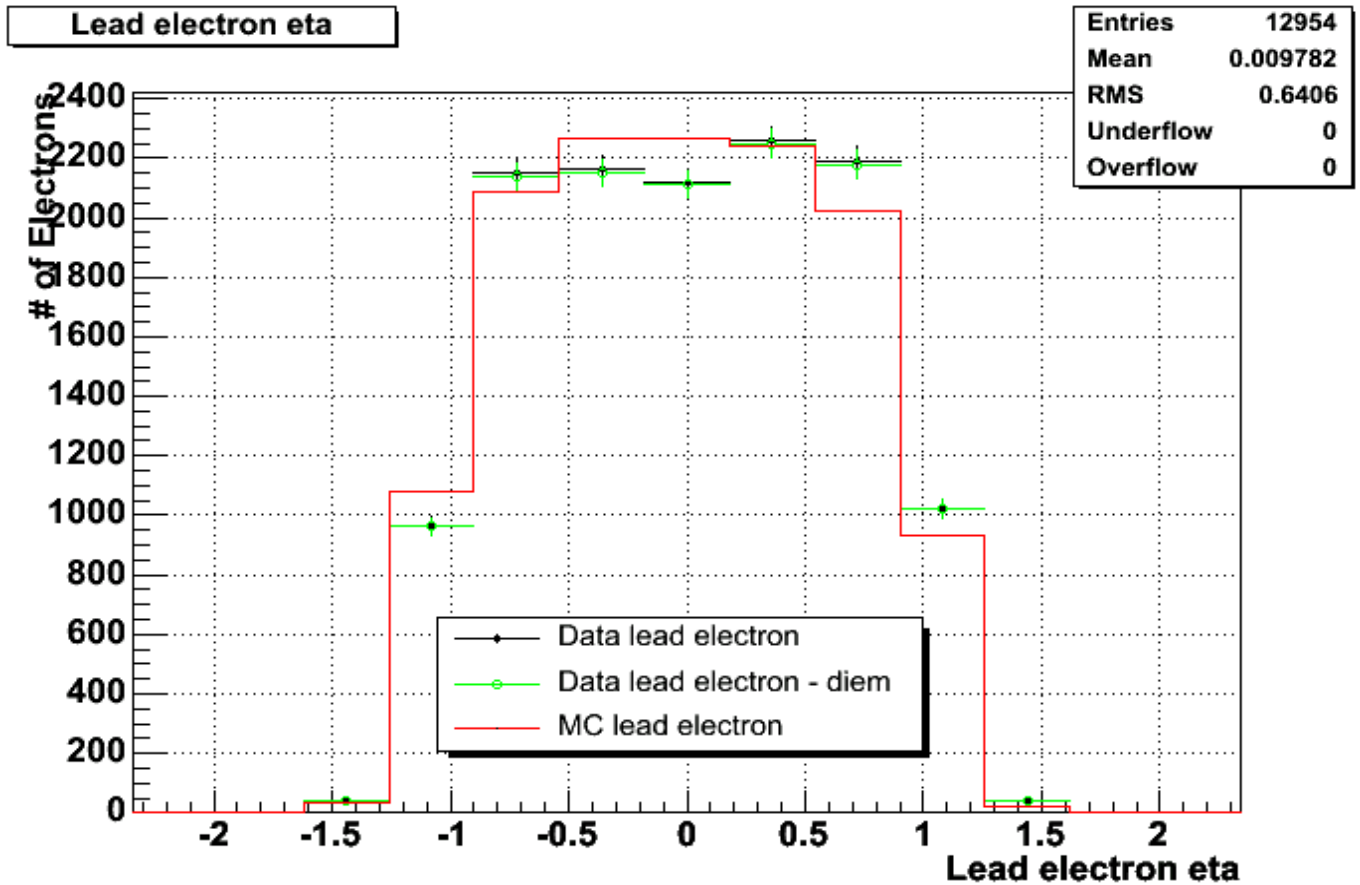
Both Electrons phi



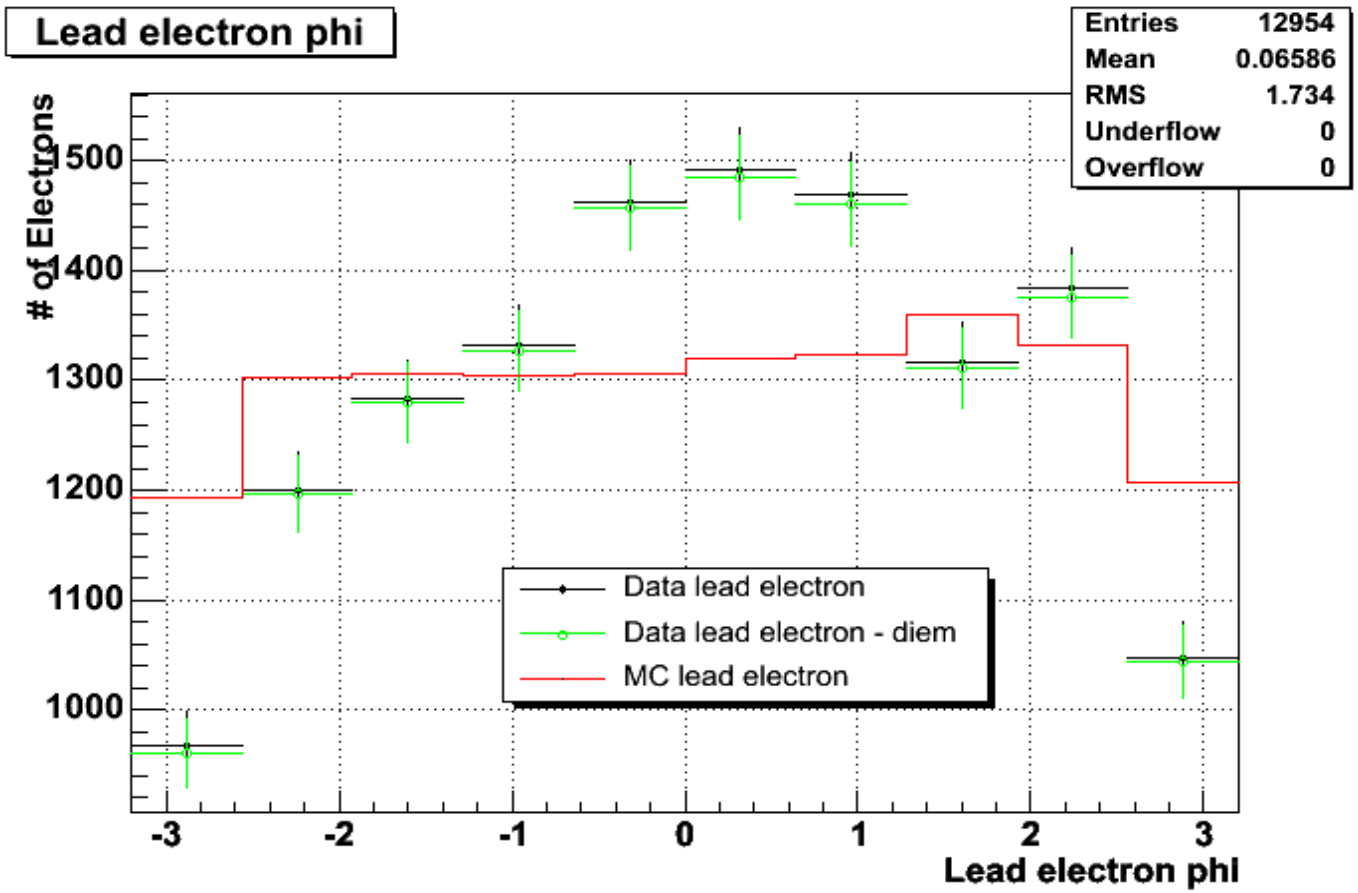
Lead Electron pt



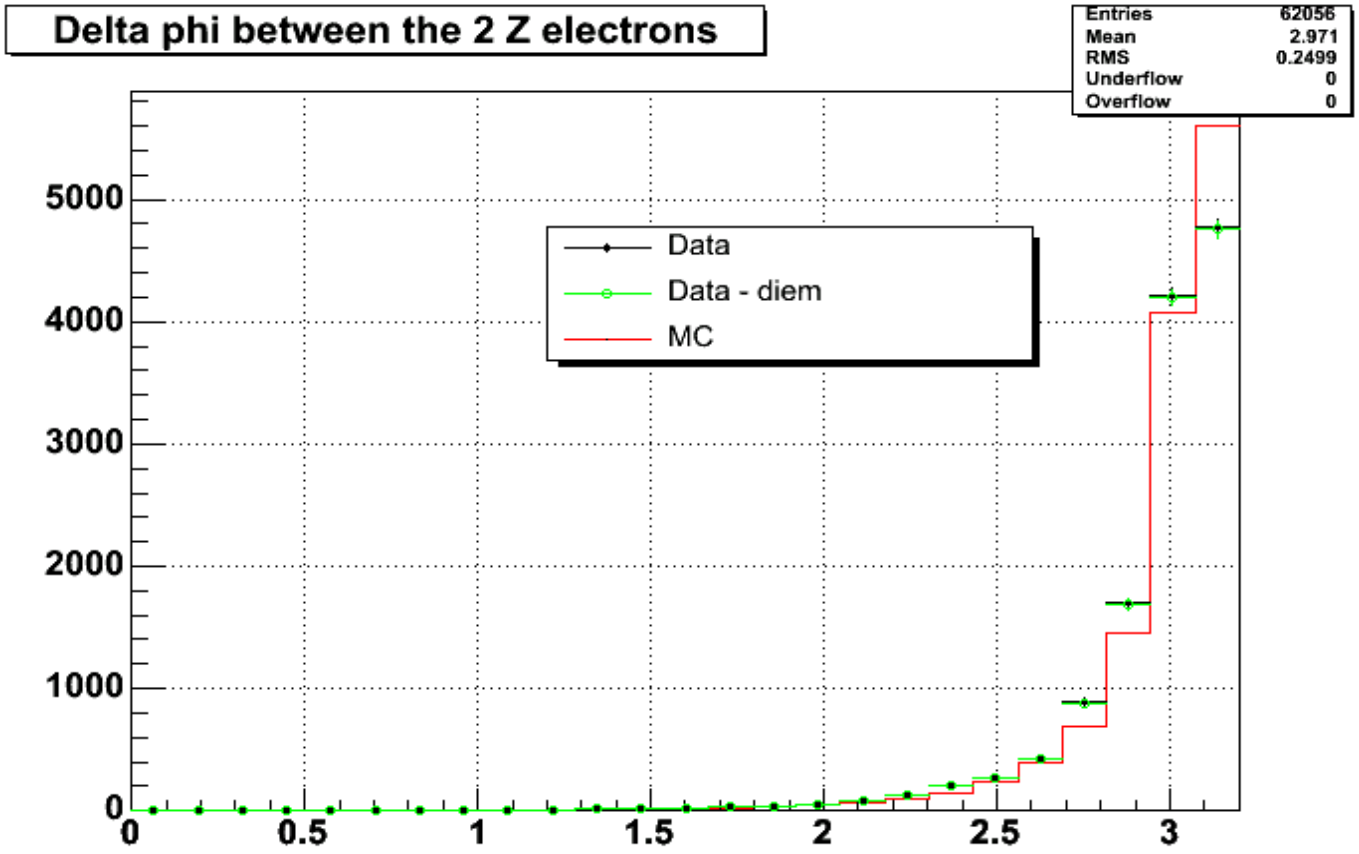
Lead Electron Eta



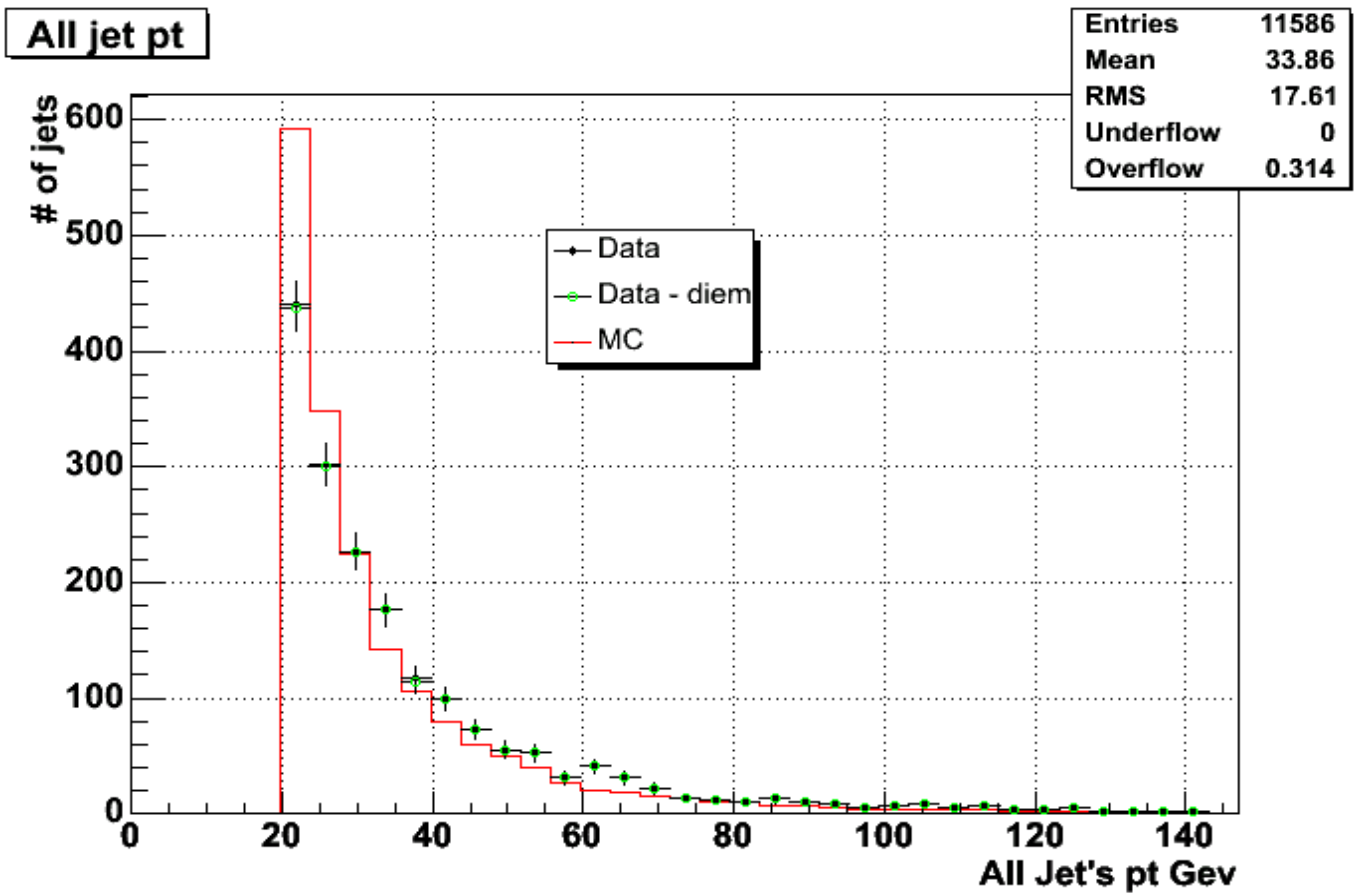
Lead Electron phi



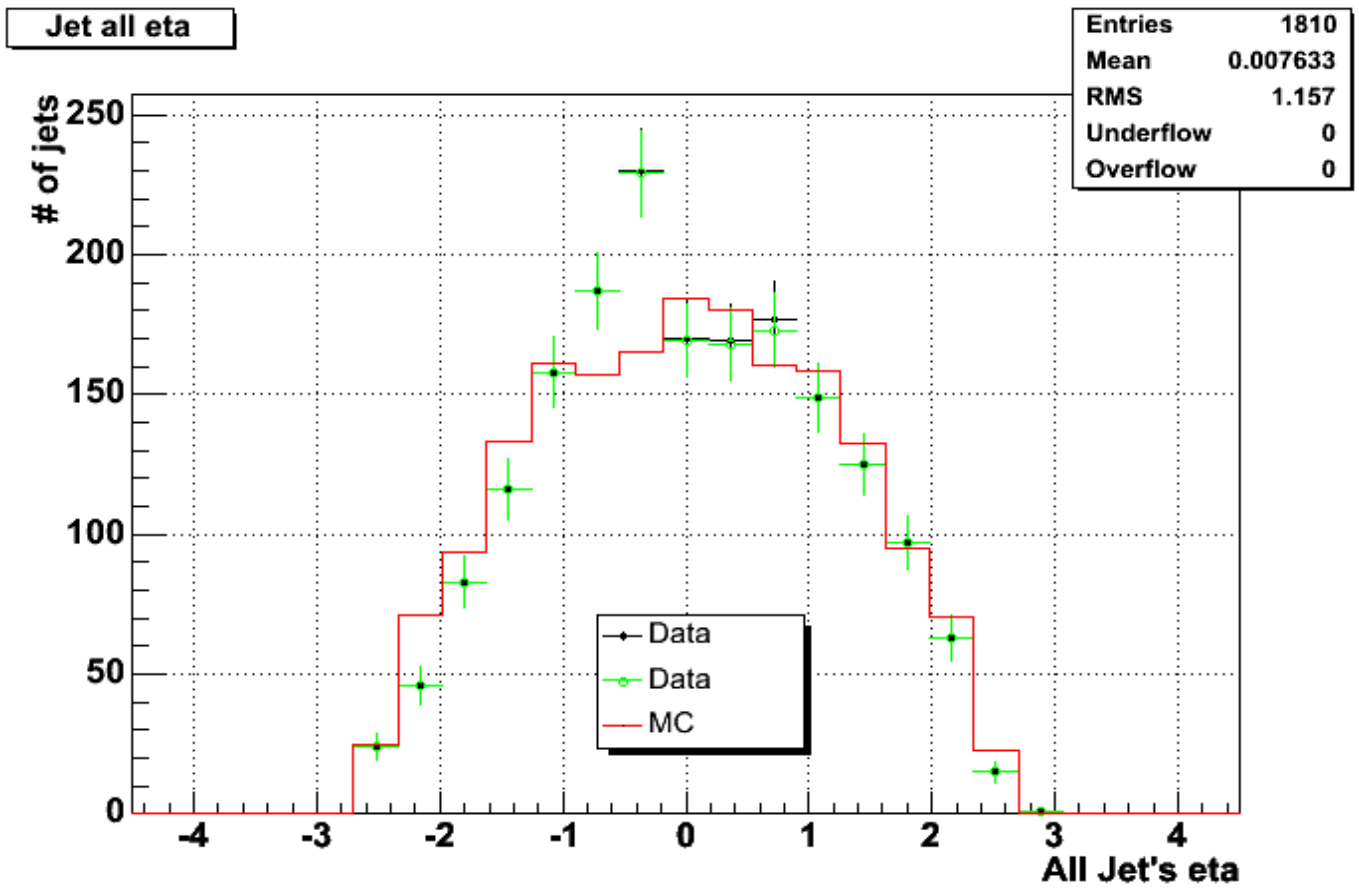
Delta Phi between electrons



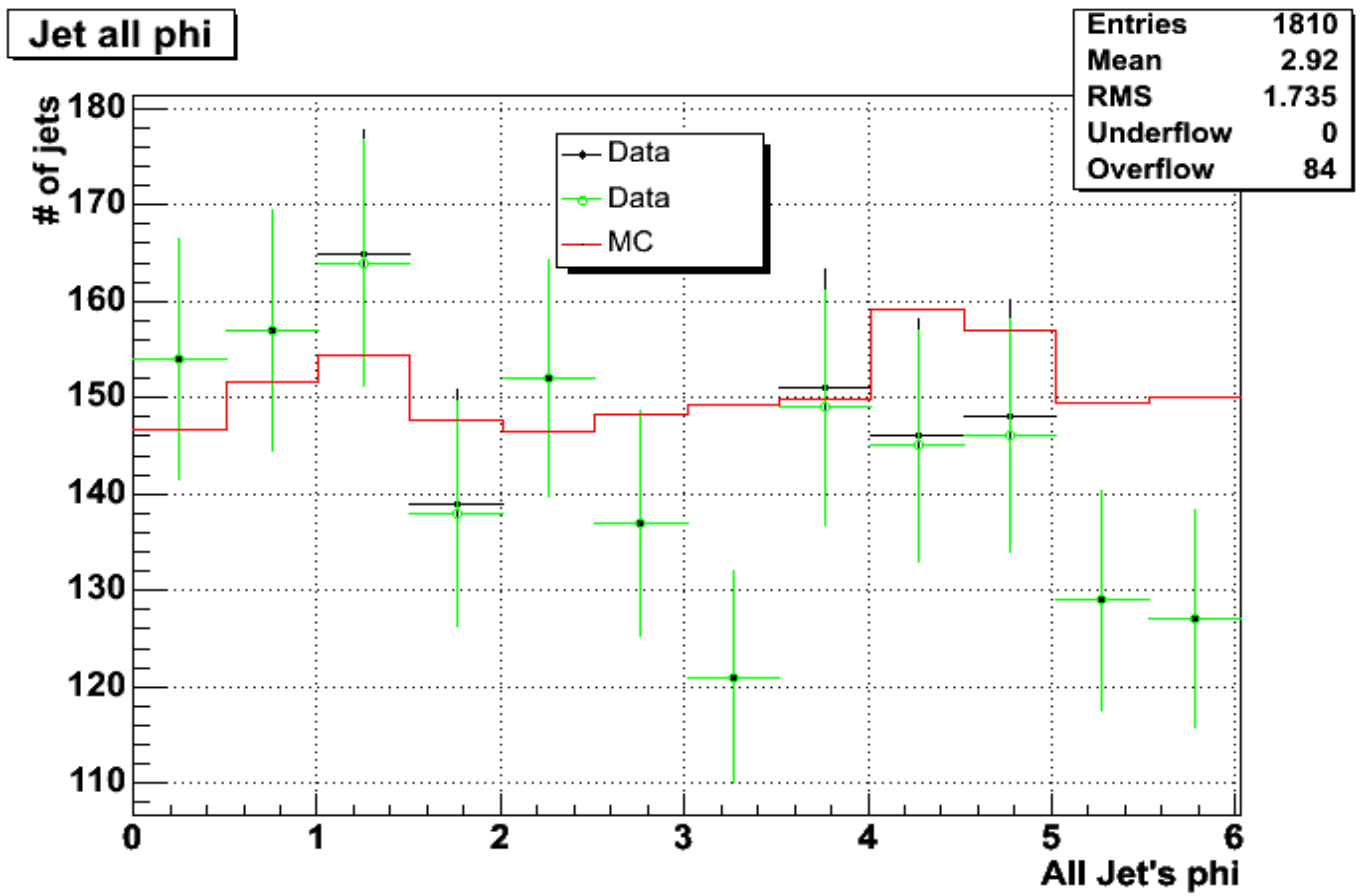
All Jets Pt


All jet pt
Entries 11586
Mean 33.86
RMS 17.61
Underflow 0
Overflow 0.314
Data
Data - diem
MC
# of jets
0
100
200
300
400
500
600
0
20
40
60
80
100
120
140
All Jet's pt Gev

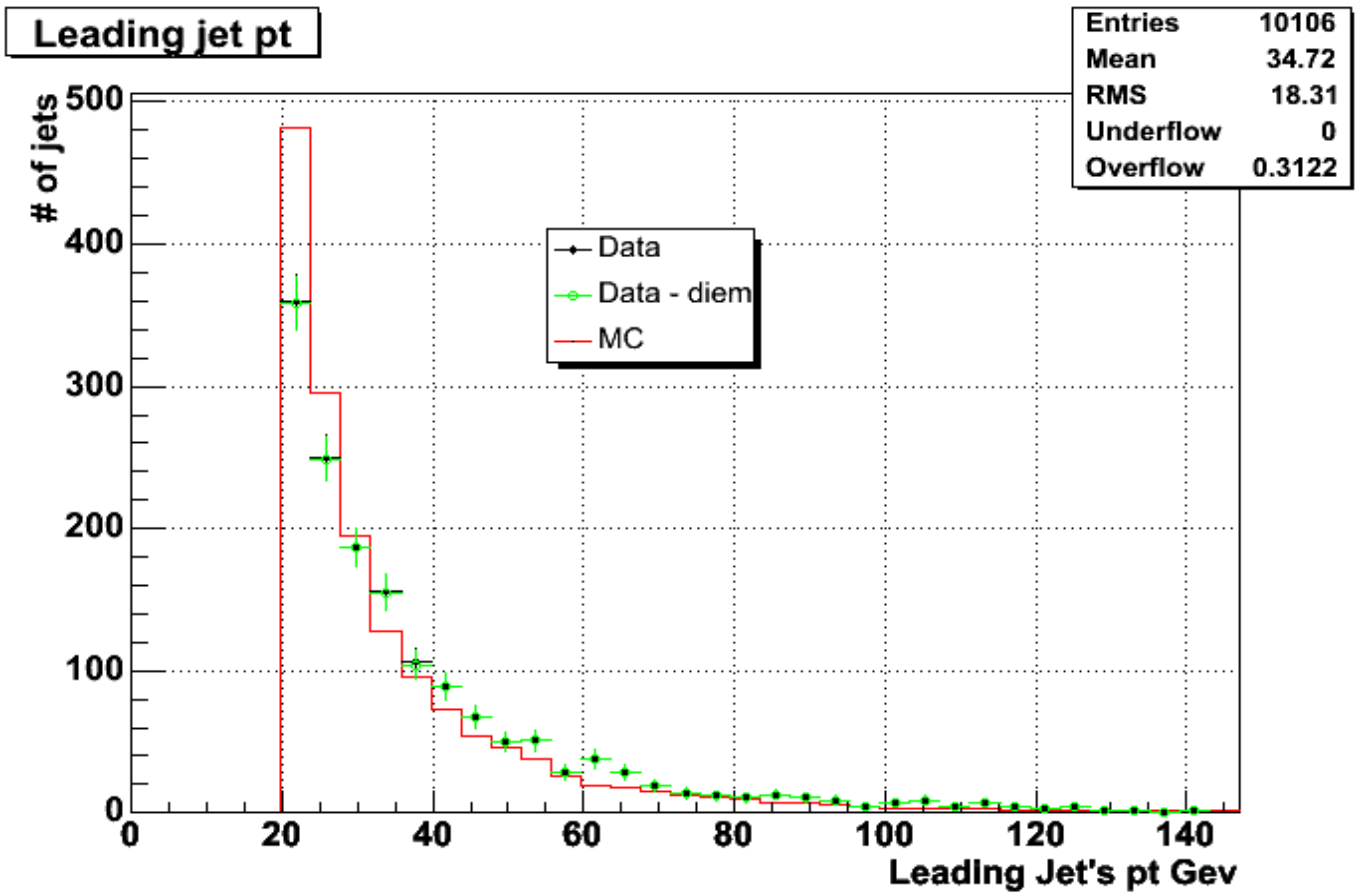
All Jets Eta


Jet all eta
Entries 1810
Mean 0.007633
RMS 1.157
Underflow 0
Overflow 0
# of jets
250
200
150
100
50
0
-4
-3
-2
-1
0
1
2
3
4
All Jet's eta
Data
Data
MC

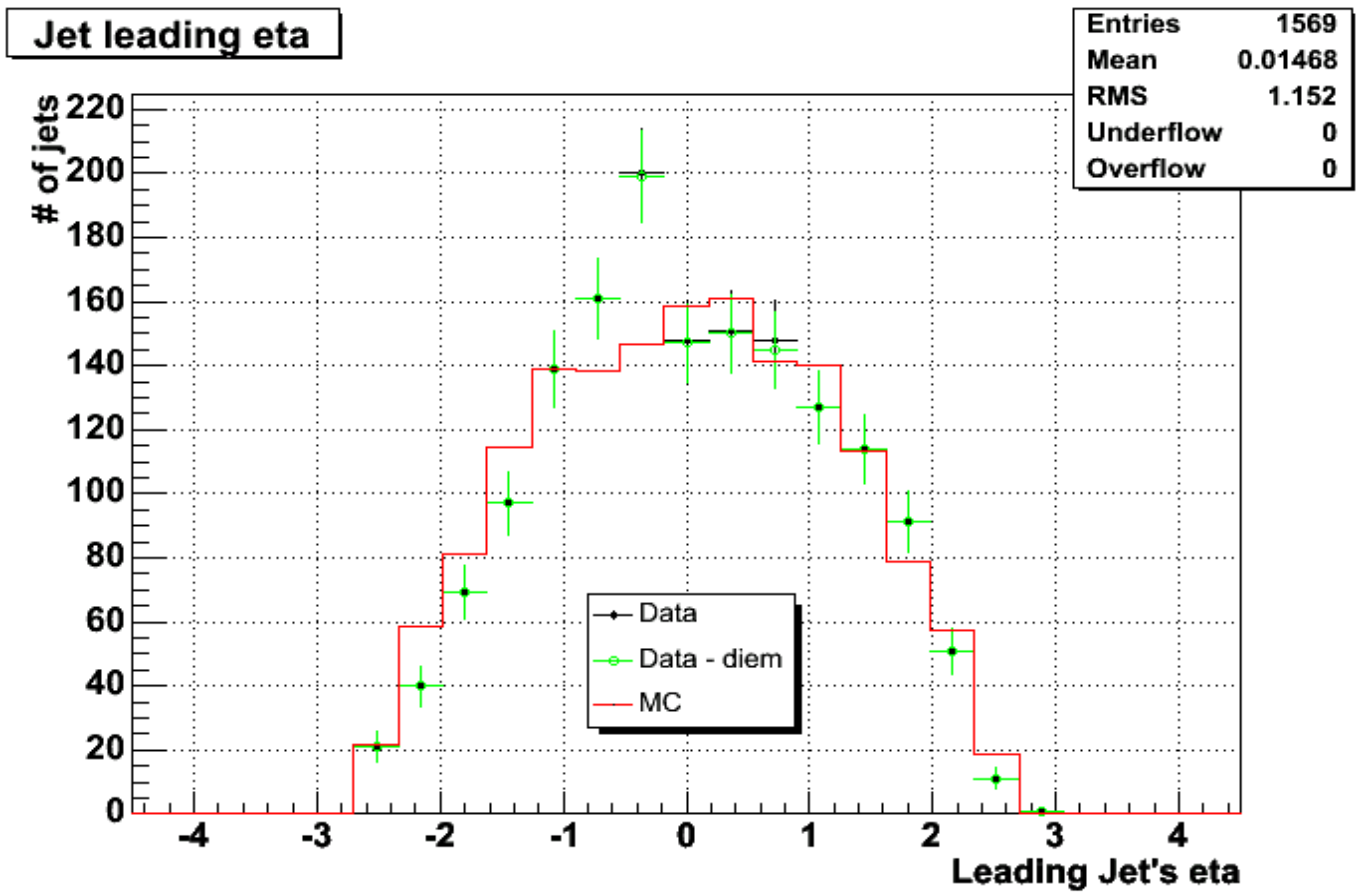
All jets phi


Jet all phi
Entries 1810
Mean 2.92
RMS 1.735
Underflow 0
Overflow 84
Data
Data
MC
# of jets
180
170
160
150
140
130
120
110
0
1
2
3
4
5
6
All Jet's phi

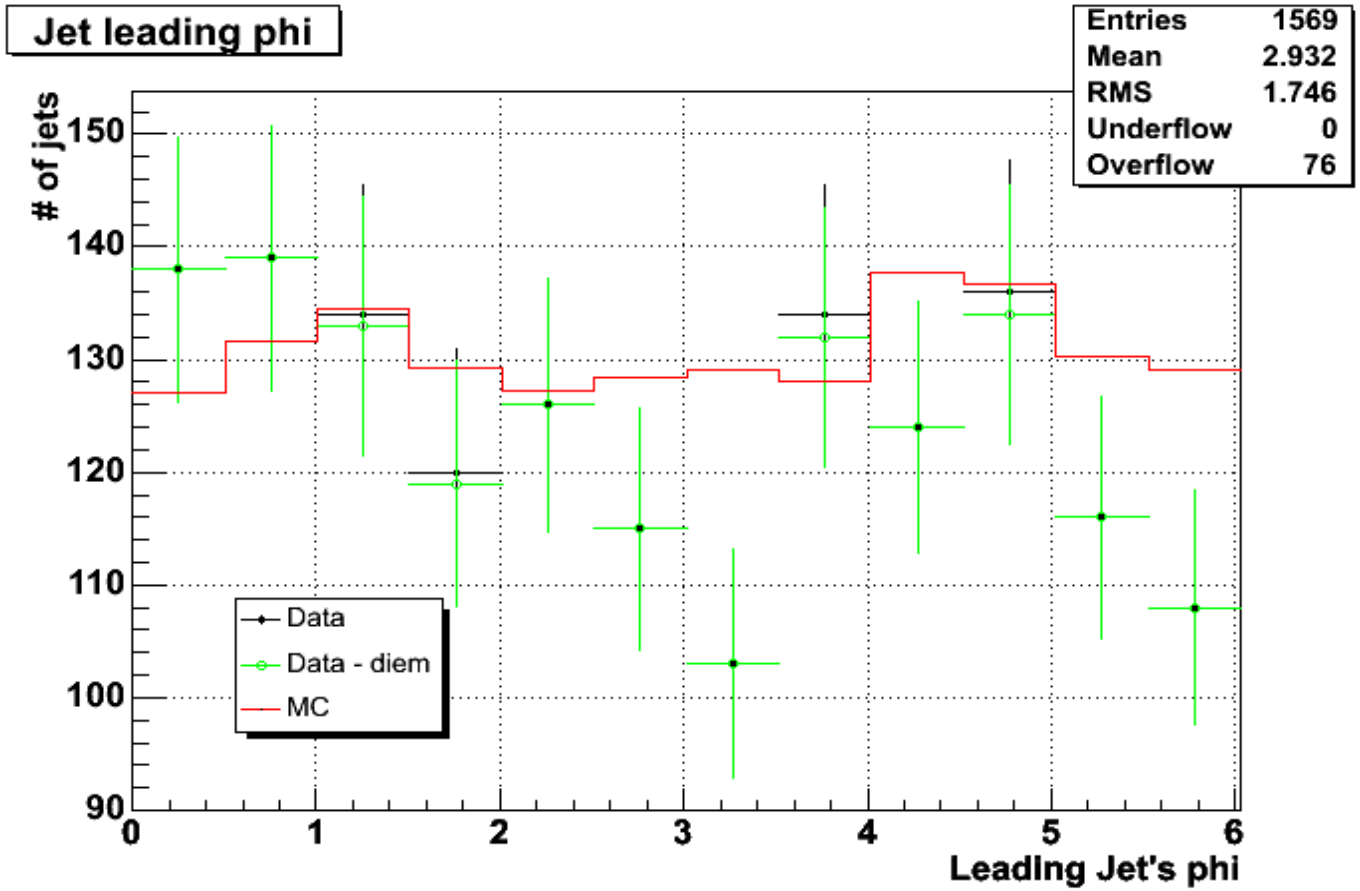
Leading Jet pt



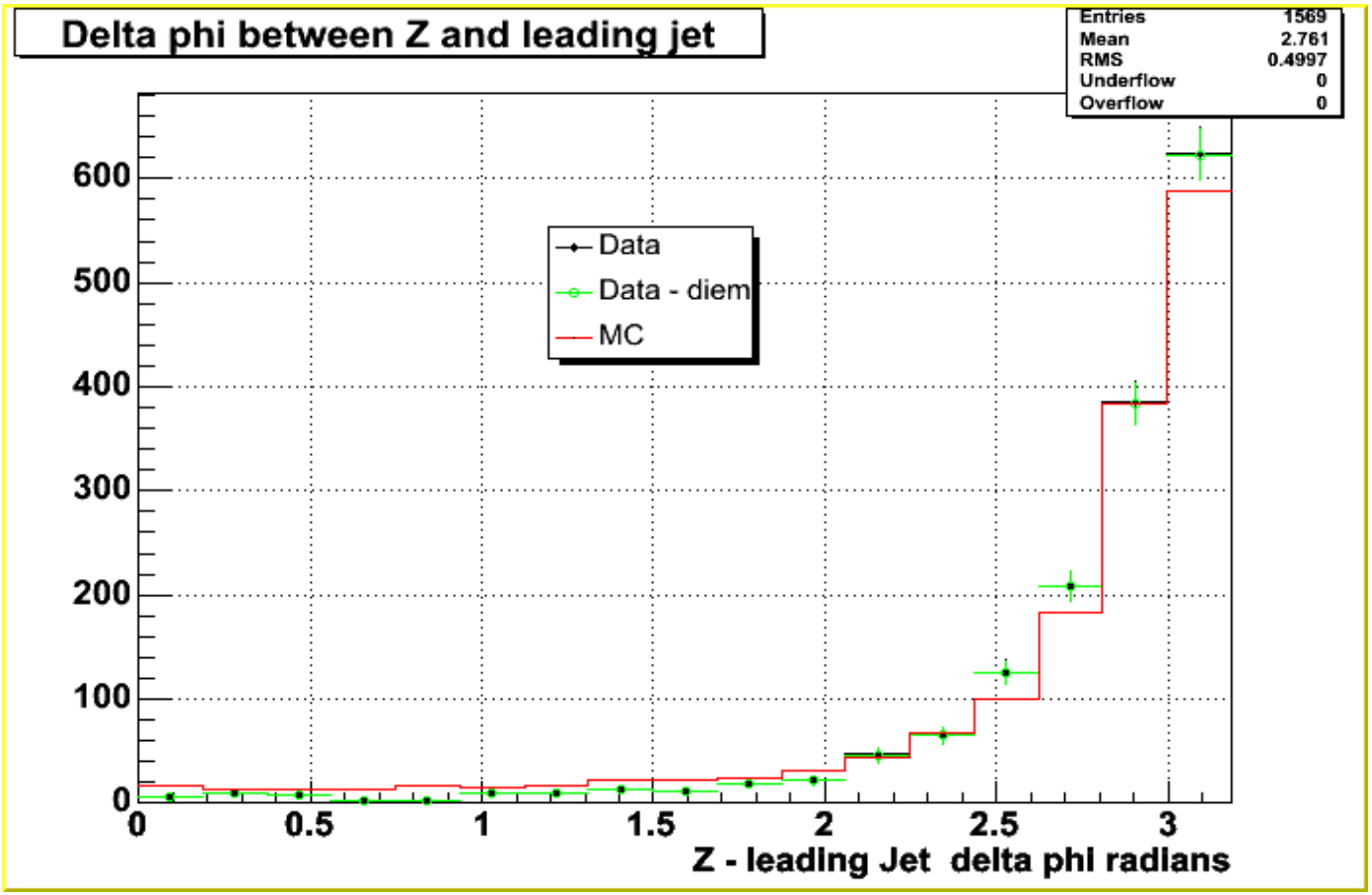
Leading Jet eta



Leading Jet phi



Delta Phi between Z and leading Jet



B Tagging Info

B tagger	EM1TRK	DIEM
# events in Z mass window	12954	12897
# jets	1810	1803
Jlip	53	53
Sv	27	27
SVX	32	32
Mu tag	734	729
Muon match	263	263