Update 10/18/2013
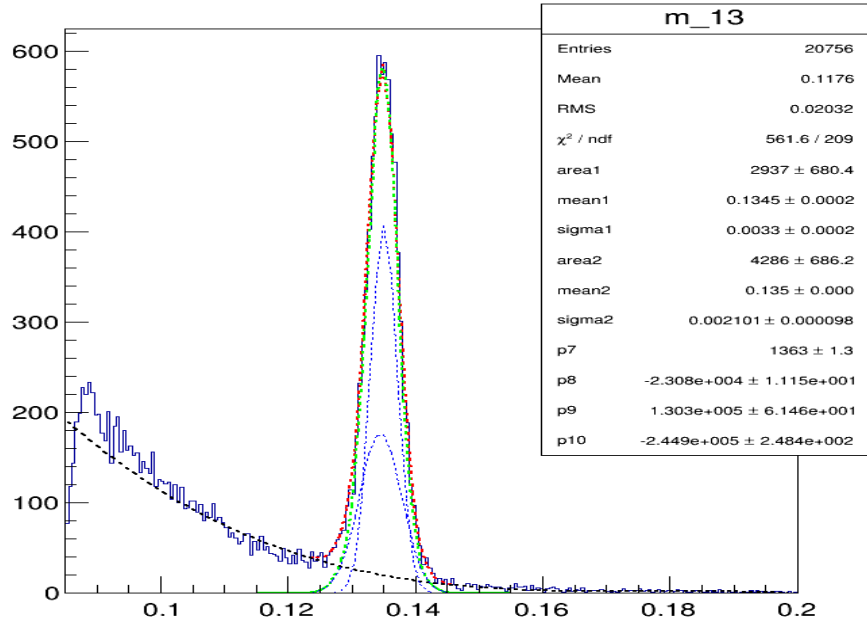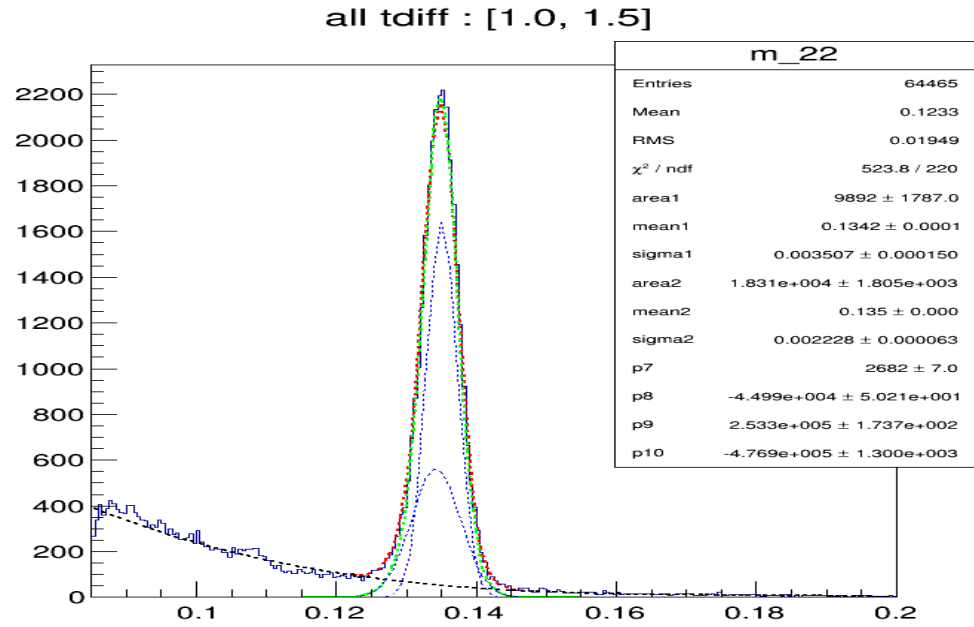
Yang
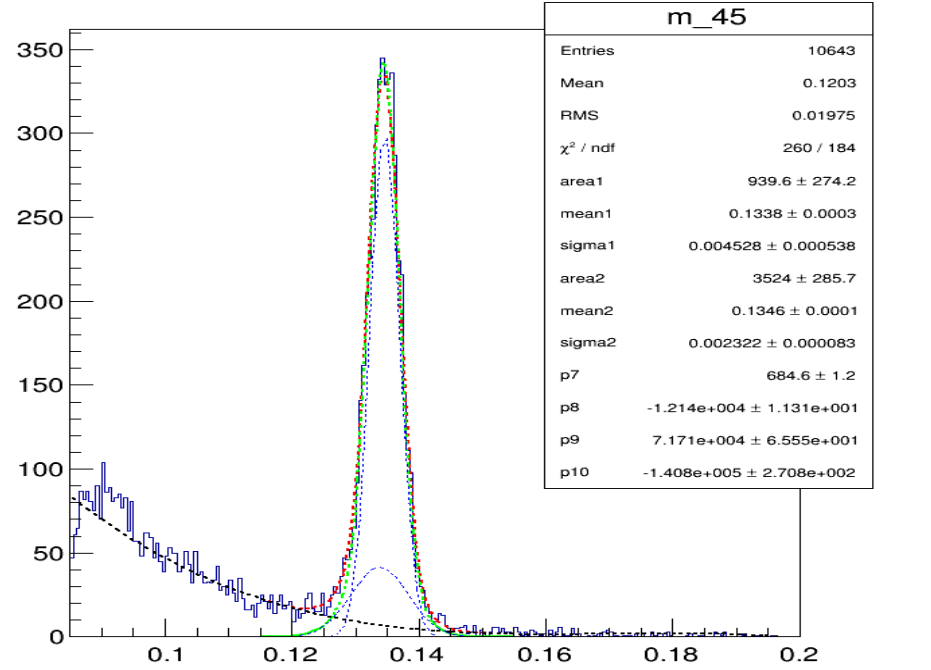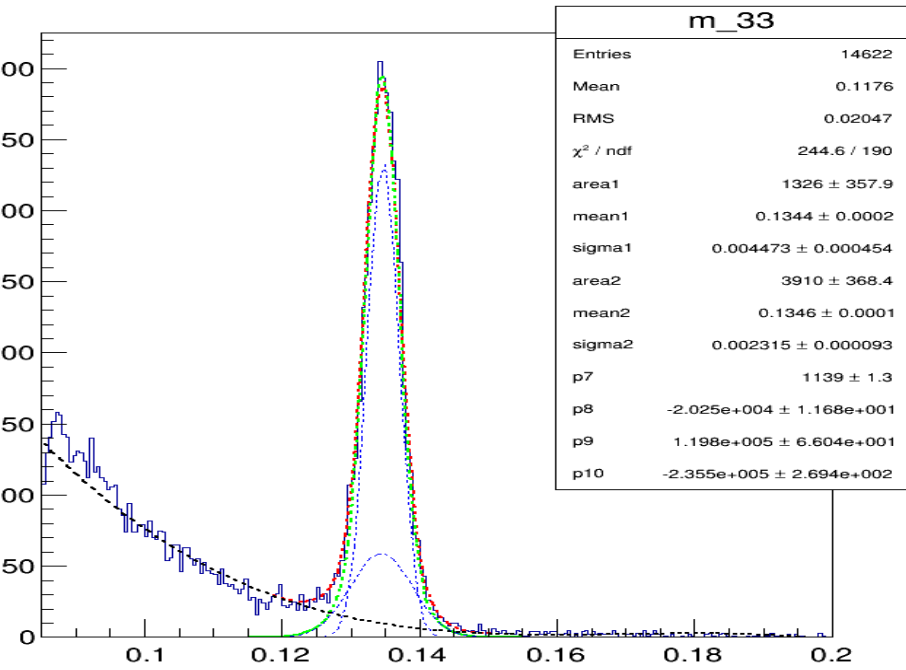
- Compile prim_ana as 32bit program on ifarm1102
- Checked pi0 yield vs. tdiff

- Using skim files for all silicon runs
- Using Hycal total sum
- Selected event must have photon
- Exclude glass and center area on hycal
- 0.5 < Ec < 7 GeV
- Using all tdiff approach: loop over photons and all the combinations of two hycal clusters

all tdiff : [1.0, 1.5]

m_13	
Entries	20756
Mean	0.1176
RMS	0.02032
χ^2 / ndf	561.6 / 209
area1	2937 ± 680.4
mean1	0.1345 ± 0.0002
sigma1	0.0033 ± 0.0002
area2	4286 ± 686.2
mean2	0.135 ± 0.000
sigma2	0.002101 ± 0.000098
p7	1363 ± 1.3
p8	-2.308e+004 ± 1.115e+001
p9	1.303e+005 ± 6.146e+001
p10	-2.449e+005 ± 2.484e+002

m_22	
Entries	64465
Mean	0.1233
RMS	0.01949
χ^2 / ndf	523.8 / 220
area1	9892 ± 1787.0
mean1	0.1342 ± 0.0001
sigma1	0.003507 ± 0.000150
area2	1.831e+004 ± 1.805e+003
mean2	0.135 ± 0.000
sigma2	0.002228 ± 0.000063
p7	2682 ± 7.0
p8	-4.499e+004 ± 5.021e+001
p9	2.533e+005 ± 1.737e+002
p10	-4.769e+005 ± 1.300e+003

all tdiff : [6.5, 7.0]

m_33	
Entries	14622
Mean	0.1176
RMS	0.02047
χ^2 / ndf	244.6 / 190
area1	1326 ± 357.9
mean1	0.1344 ± 0.0002
sigma1	0.004473 ± 0.000454
area2	3910 ± 368.4
mean2	0.1346 ± 0.0001
sigma2	0.002315 ± 0.000093
p7	1139 ± 1.3
p8	-2.025e+004 ± 1.168e+001
p9	1.198e+005 ± 6.604e+001
p10	-2.355e+005 ± 2.694e+002

all tdiff : [12.5, 13.0]

m_45	
Entries	10643
Mean	0.1203
RMS	0.01975
χ^2 / ndf	260 / 184
area1	939.6 ± 274.2
mean1	0.1338 ± 0.0003
sigma1	0.004528 ± 0.000538
area2	3524 ± 285.7
mean2	0.1346 ± 0.0001
sigma2	0.002322 ± 0.000083
p7	684.6 ± 1.2
p8	-1.214e+004 ± 1.131e+001
p9	7.171e+004 ± 6.555e+001
p10	-1.408e+005 ± 2.708e+002

tdiff

tdiff	
Entries	60
Mean	2.99
RMS	6.667
χ^2 / ndf	348.1 / 50
area1	2.094e+005 ± 4.972e+003
mean1	1.147 ± 0.043
sigma1	1.839 ± 0.018
area2	5.01e+004 ± 4.72e+003
mean2	-1.074 ± 0.040
sigma2	1.191± 0.030
p7	4612 ± 37.4
p8	20.74 ± 2.12
p9	-2.087 ± 0.509
p10	0.04163 ± 0.02568