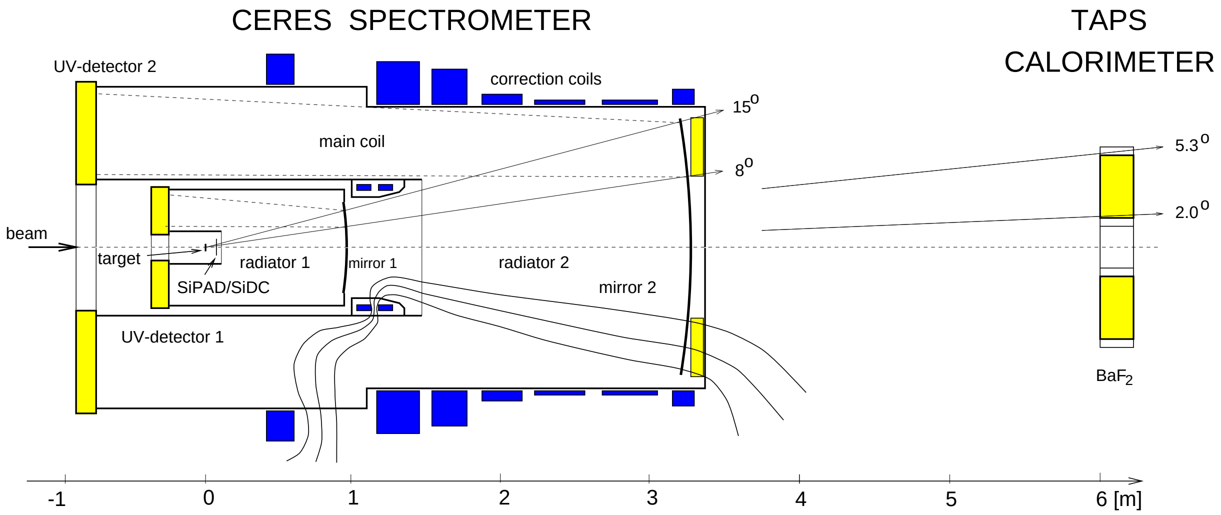

CERES SPECTROMETER
TAPS
CALORIMETER
UV-detector 2
correction coils
main coil
15°
8°
5.3°
2.0°
beam
target
radiator 1
mirror 1
radiator 2
mirror 2
SiPAD/SiDC
UV-detector 1
BaF2
-1
0
1
2
3
4
5
6 [m]

Figure 1:

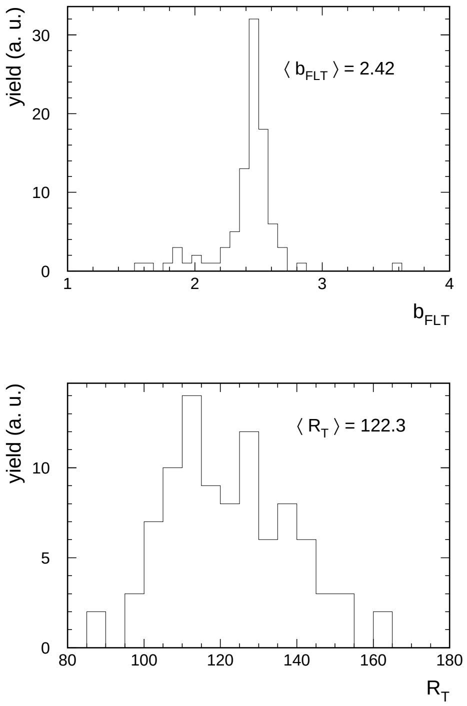


Figure 2:

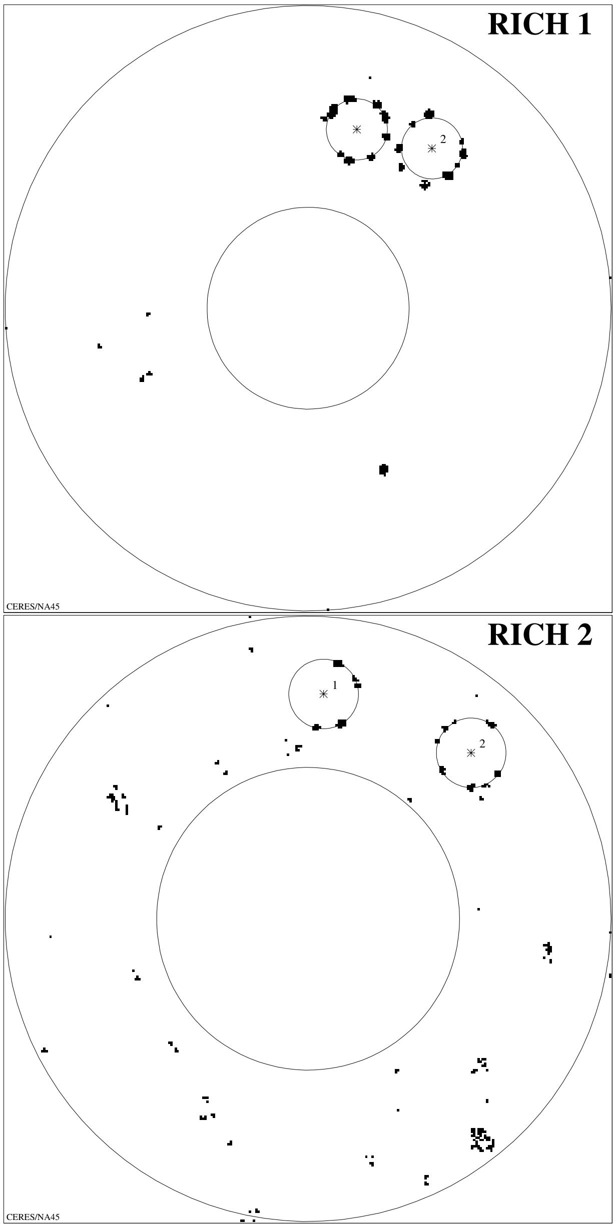


Figure 3:

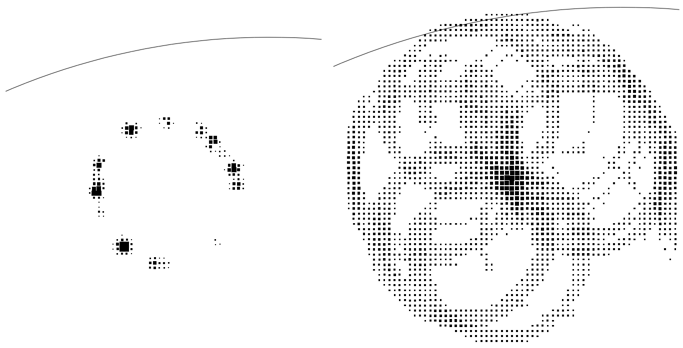


Figure 4:

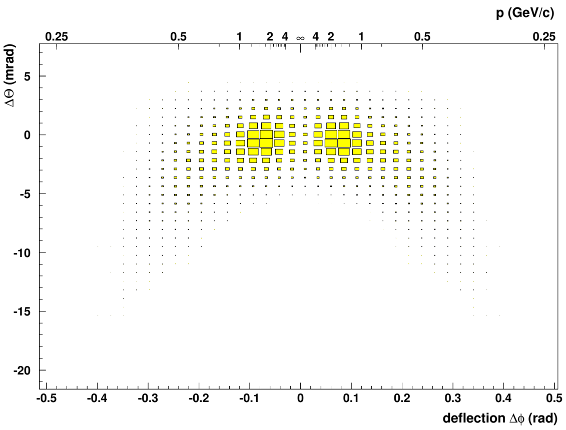


Figure 5:

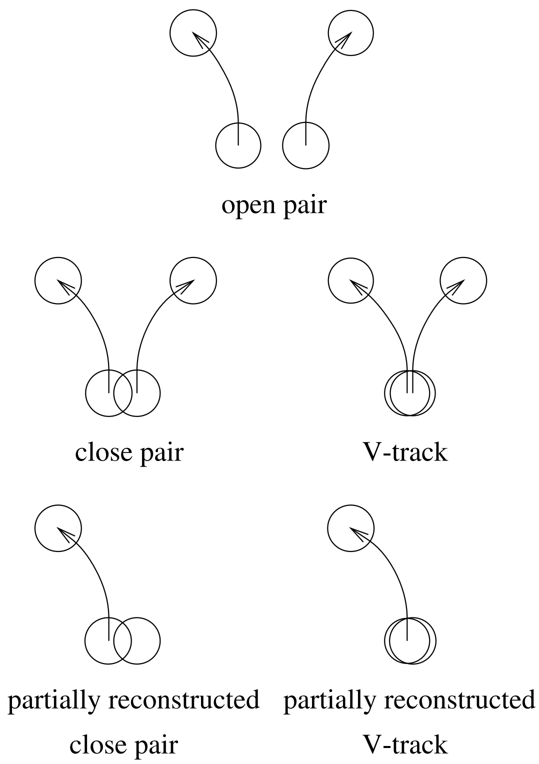
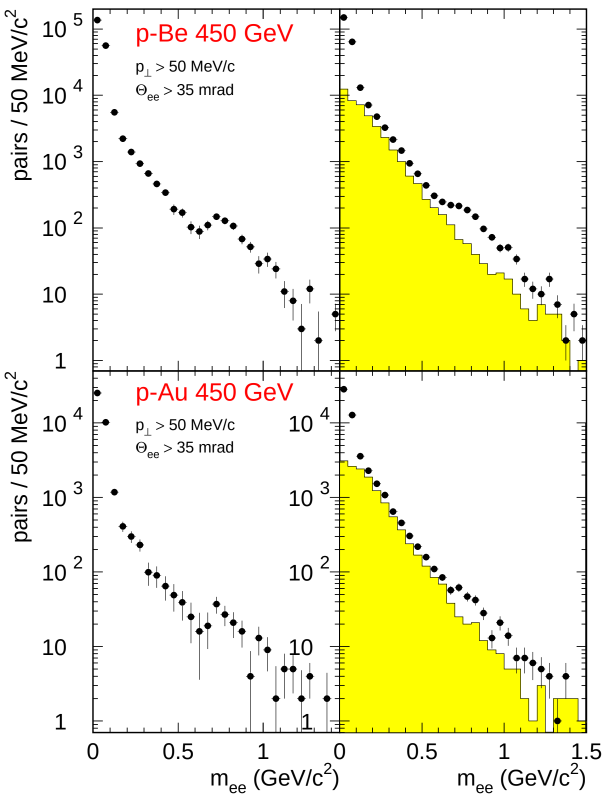

open pair
close pair
V-track
partially reconstructed
close pair
partially reconstructed
V-track

Figure 6:



p-Be 450 GeV
$p_\perp$ > 50 MeV/c
Θ_{ee} > 35 mrad
p-Au 450 GeV
$p_\perp$ > 50 MeV/c
Θ_{ee} > 35 mrad
pairs / 50 MeV/c^2
pairs / 50 MeV/c^2
m_{ee} (GeV/c^2)
m_{ee} (GeV/c^2)

Figure 7:

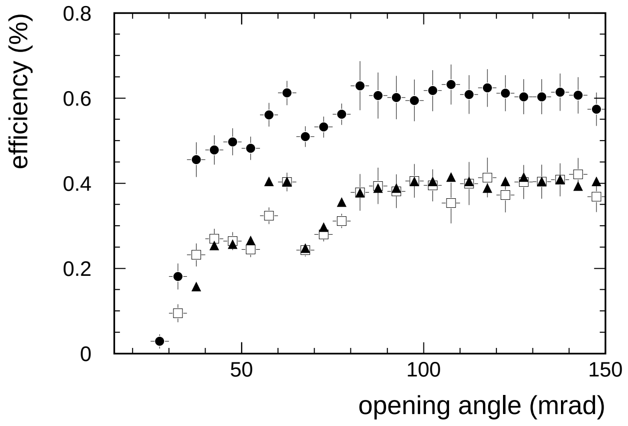


Figure 8:

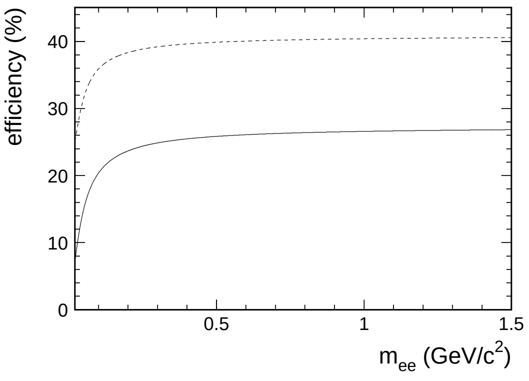
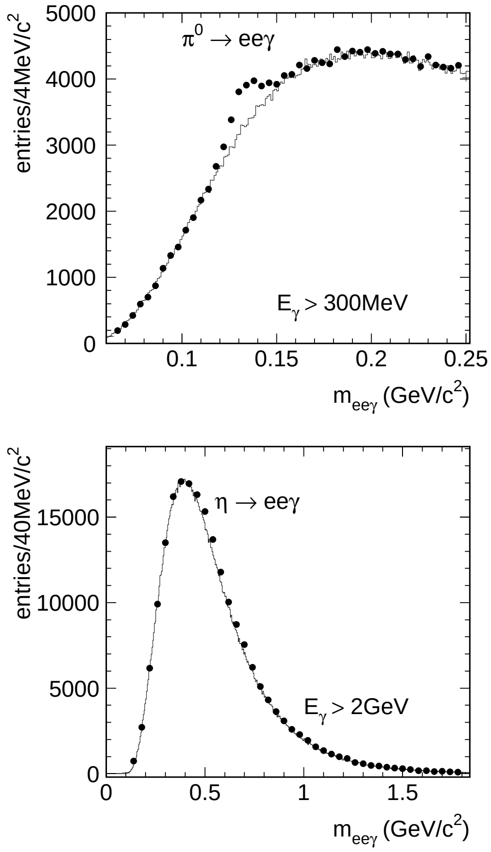
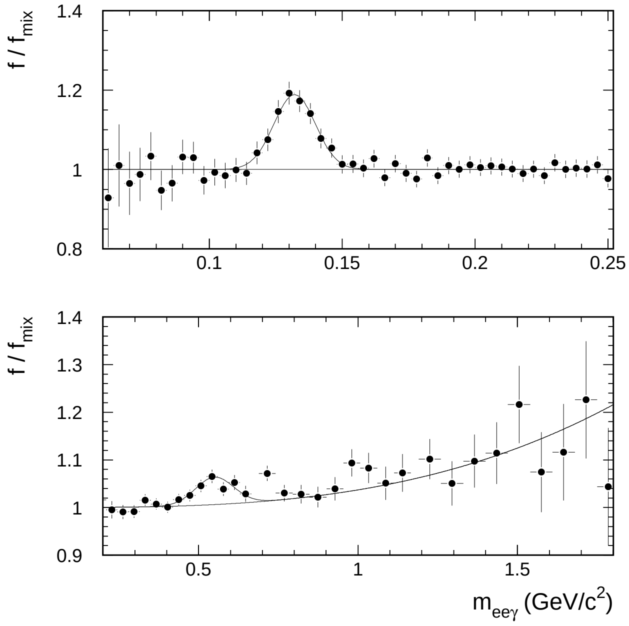


Figure 9:



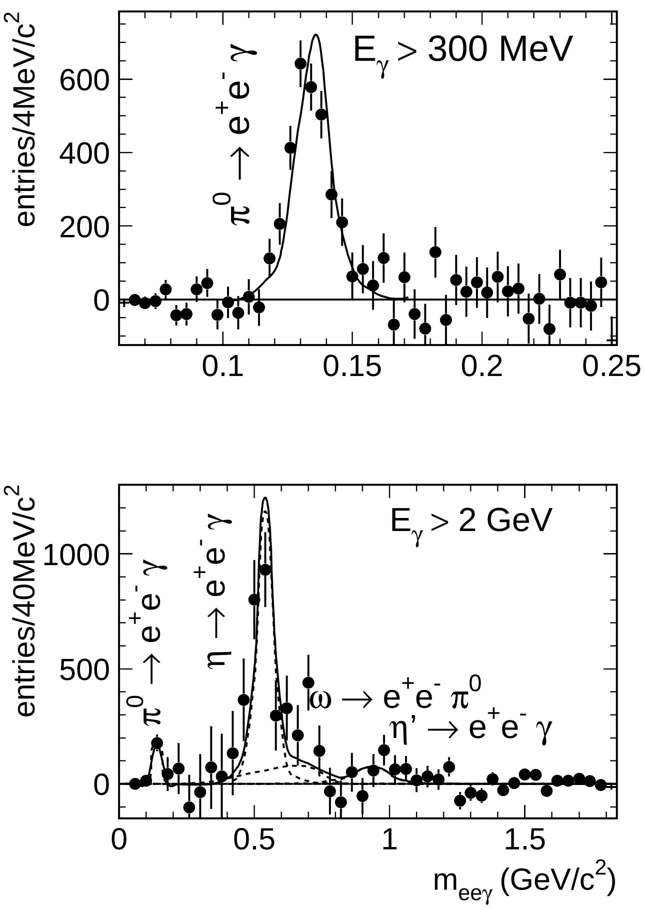
entries/4MeV/c^2
π^0 → eeγ
E_γ > 300MeV
m_eeγ (GeV/c^2)
entries/40MeV/c^2
η → eeγ
E_γ > 2GeV
m_eeγ (GeV/c^2)

Figure 10:



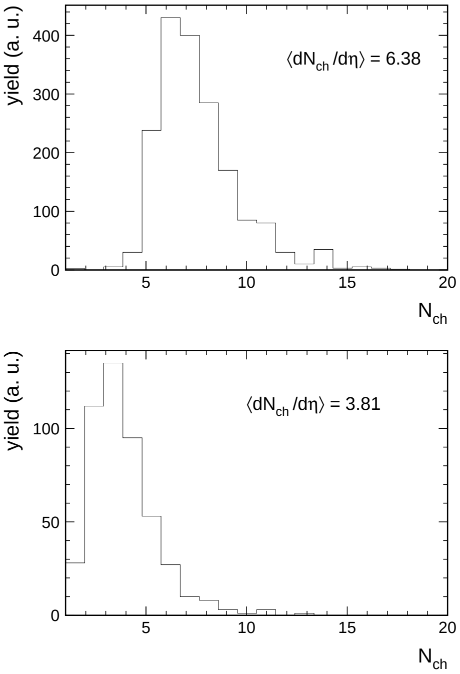
f / f_mix
1.4
1.2
1
0.8
0.1
0.15
0.2
0.25
f / f_mix
1.4
1.3
1.2
1.1
1
0.9
0.5
1
1.5
m_eeγ (GeV/c²)

Figure 11:



entries/4MeV/c2
$E_\gamma > 300$ MeV
$\pi^0 \to e^+e^-\gamma$
entries/40MeV/c2
$E_\gamma > 2$ GeV
$\pi^0 \to e^+e^-\gamma$
$\eta \to e^+e^-\gamma$
$\omega \to e^+e^-\pi^0$
$\eta' \to e^+e^-\gamma$
$m_{ee\gamma}$ (GeV/c2)

Figure 12: .



yield (a. u.)
400
300
200
100
0
5
10
15
20
N_{ch}
$\langle dN_{ch}/d\eta \rangle = 6.38$
yield (a. u.)
100
50
0
5
10
15
20
N_{ch}
$\langle dN_{ch}/d\eta \rangle = 3.81$

Figure 13:

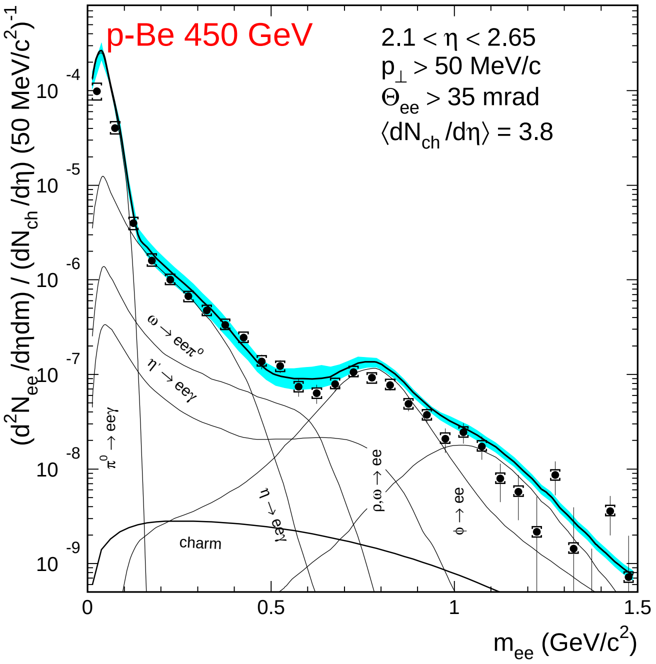
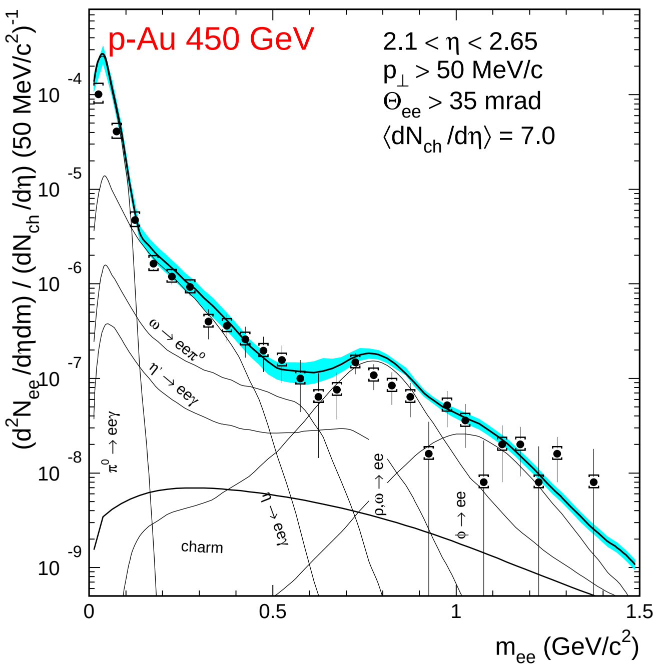
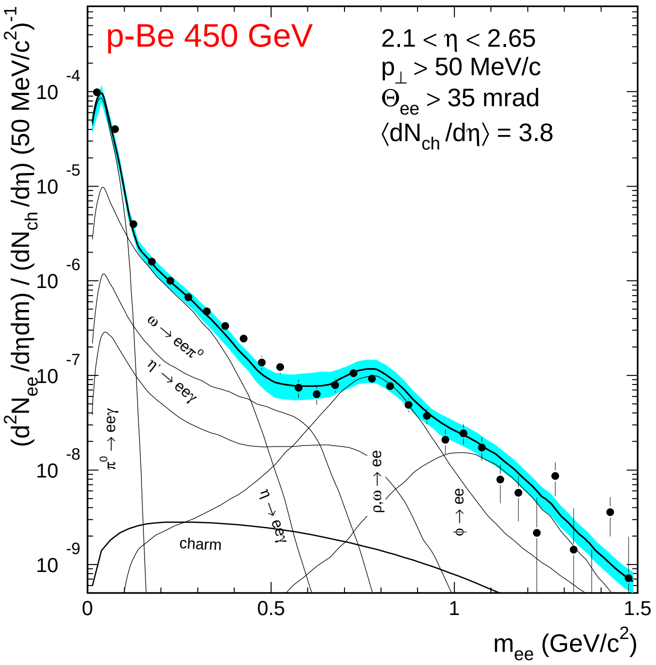

p-Be 450 GeV
2.1 < η < 2.65
p⊥ > 50 MeV/c
Θee > 35 mrad
⟨dNch /dη⟩ = 3.8
ω → eeπ0
η' → eeγ
π0 → eeγ
η → eeγ
ρ,ω → ee
φ → ee
charm
(d2Nee/dηdm) / (dNch/dη) (50 MeV/c2)-1
mee (GeV/c2)

Figure 14:



p-Au 450 GeV
2.1 < η < 2.65
p⊥ > 50 MeV/c
Θee > 35 mrad
⟨dNch /dη⟩ = 7.0
(d²Nee/dηdm) / (dNch/dη) (50 MeV/c²)⁻¹
mee (GeV/c²)
ω → eeπ⁰
η′ → eeγ
π⁰ → eeγ
η → eeγ
ρ,ω → ee
φ → ee
charm

Figure 15:



p-Be 450 GeV
2.1 < η < 2.65
p⊥ > 50 MeV/c
Θee > 35 mrad
⟨dNch/dη⟩ = 3.8
ω → eeπ0
η' → eeγ
π0 → eeγ
η → eeγ
ρ,ω → ee
φ → ee
charm
(d2Nee/dηdm) / (dNch/dη) (50 MeV/c2)-1
mee (GeV/c2)

Figure 16: