Data sample:

- 4.8.4 production TTT data on CAF
- Only select Good runs
- Luminosity 65 pb-1

Track Quality(TrackSelectorModule):

- Refit all the tracks (KAL fitter)
- Drop L00, ISL hits
- Alignment 100030 1 Good
- COT covariance matrix rescaled
- At least 20 axial and 20 stereo COT hits
- At least 3 r-phi silicon hits
- Minimum pt 400 Mev

Trigger Cut:

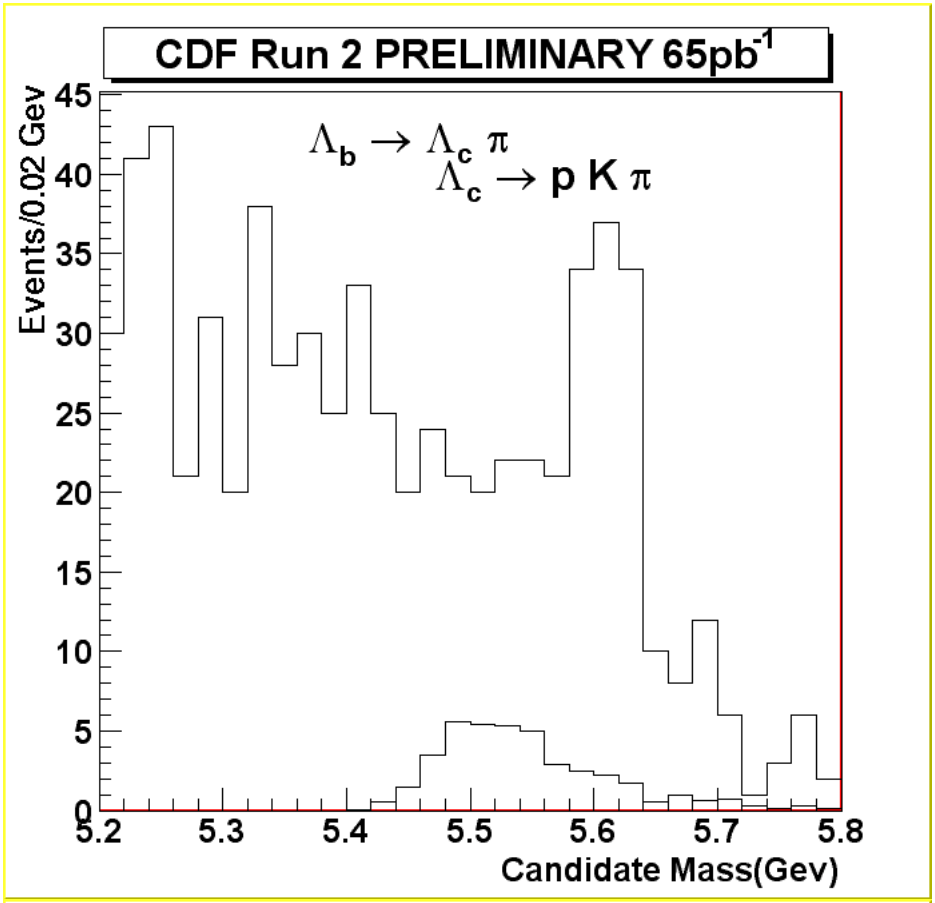
Confirm scenario A trigger cuts offline

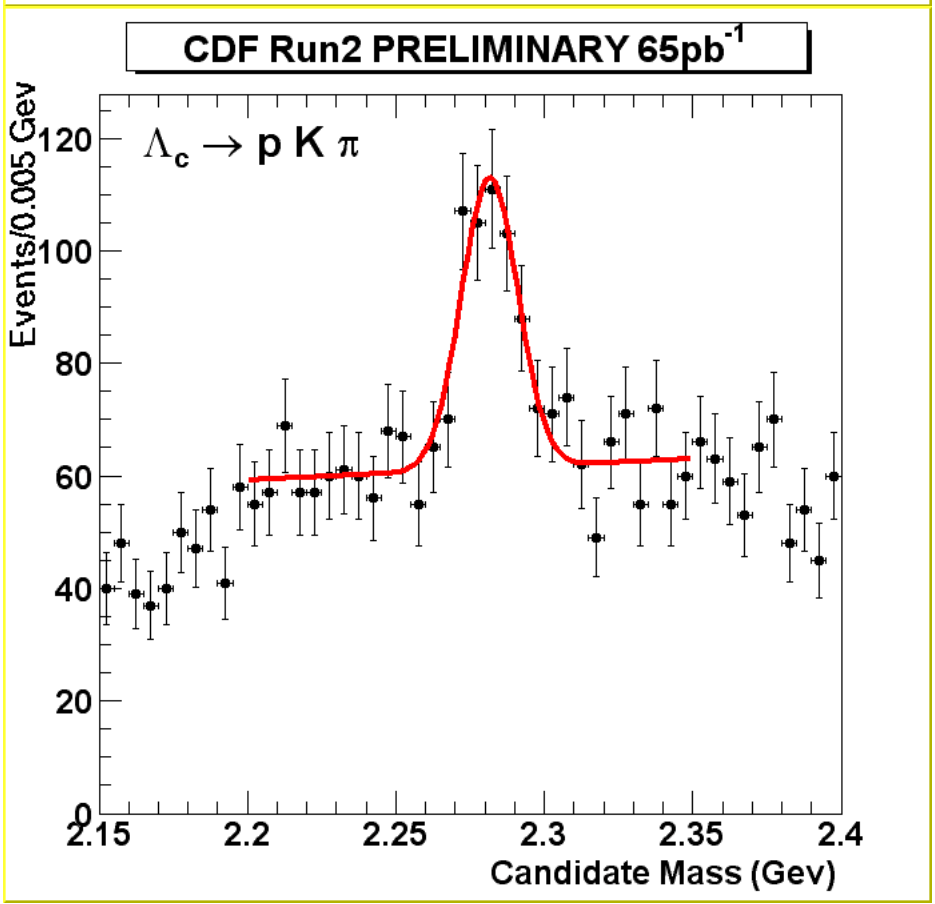
Candidates:

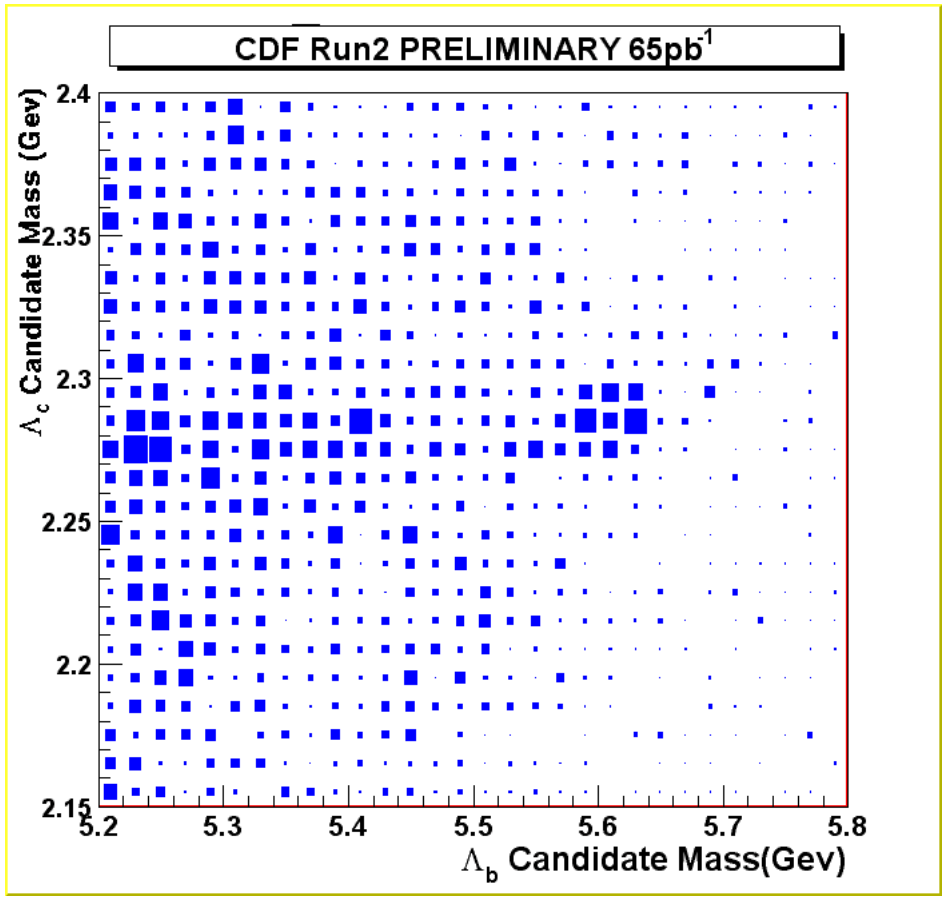
- Pt(proton) > 2.0Gev
- Pt(pi from Lb) > 2.0Gev
- Pt(Λ_c)>4.5Gev
- Pt(Λ_b) >7.5Gev
- Ct(Λ_b) > 225 μm
- Ct(Λ_c from Λ_b) > -65 μm
- d0(Λ_b) < 85 μm
- Pt(proton) > Pt(pi from Λ_c)
- m(Λ_c) mass window [2.264,2.230]Gev
- Isolation cut >0.5

Vertex Fit:

fit probability > 0.001 for both Λ_c Λ_b vertex, 2d pointing


CDF Run 2 PRELIMINARY 65pb^{-1}
$\Lambda_b \rightarrow \Lambda_c \pi$
$\Lambda_c \rightarrow p K \pi$
Events/0.02 Gev
Candidate Mass(Gev)


CDF Run2 PRELIMINARY 65pb^{-1}
$\Lambda_c \rightarrow p K \pi$
Events/0.005 Gev
Candidate Mass (Gev)


CDF Run2 PRELIMINARY 65pb-1
Λc Candidate Mass (Gev)
2.4
2.35
2.3
2.25
2.2
2.15
5.2
5.3
5.4
5.5
5.6
5.7
5.8
Λb Candidate Mass(Gev)