组会报告

敖冬

Signal number constrain

- $F(\chi^2_{IP}) = N_p \cdot F_p(\chi^2_{IP}) + (N_{sig} - N_p) \cdot F_s(\chi^2_{IP}) + N_{bkg} \cdot F_{bkg}(\chi^2_{IP})$
- N_{sig} constrain 即给上式乘一个高斯函数

- $e^{\frac{(N_{sig}-\mu)^2}{2\sigma}}$， μ， σ为通过质量谱拟合得到的信号数中心值和统计误差
- 只用信号区间（3σ）数据做IPCHI2拟合

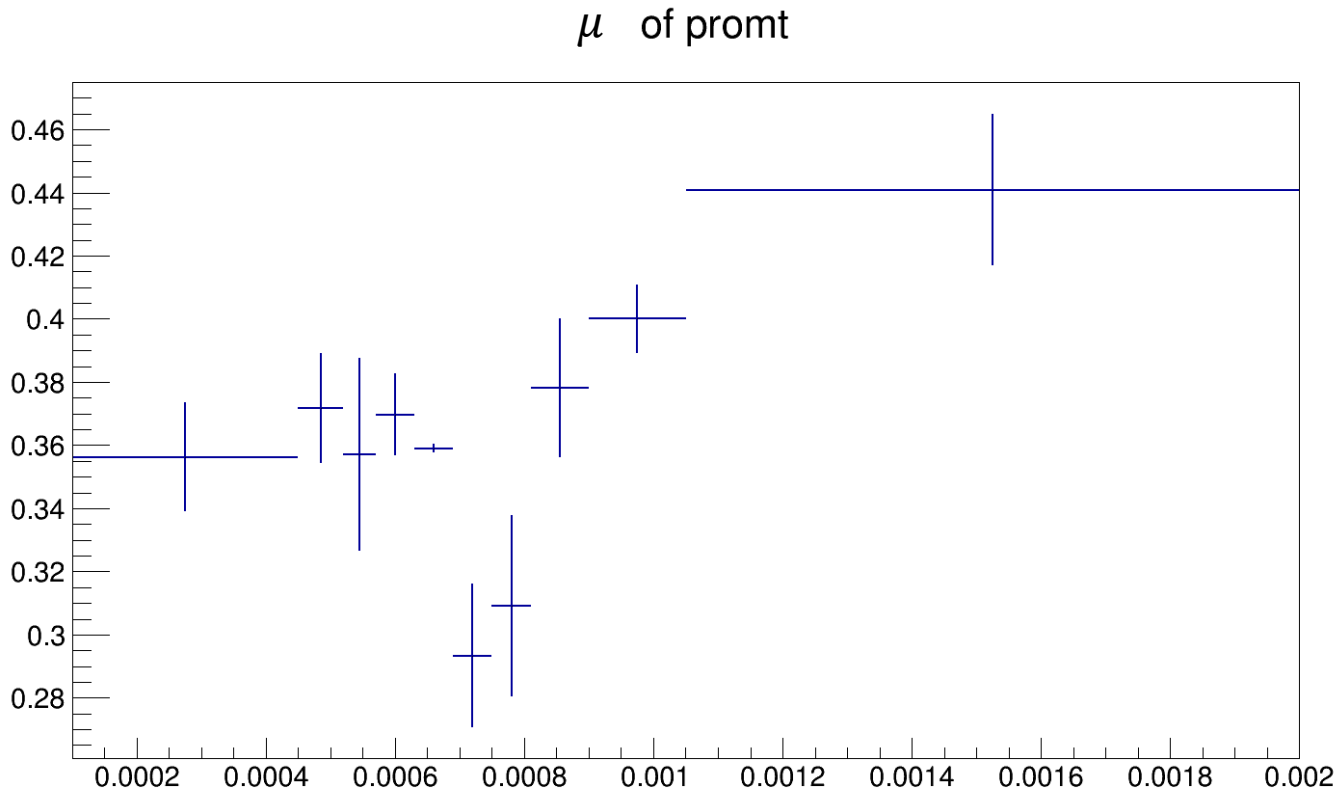
Fix some parameters of IPCHI2 model

	Prompt	Secondary
μ	Float	Float
σ	Fixed	Float
ξ	Fixed	Fixed
ρ_1	Fixed	Fixed
ρ_2	Fixed	Fixed

Parameters of secondary always have large correlation coefficient

Para of prompt

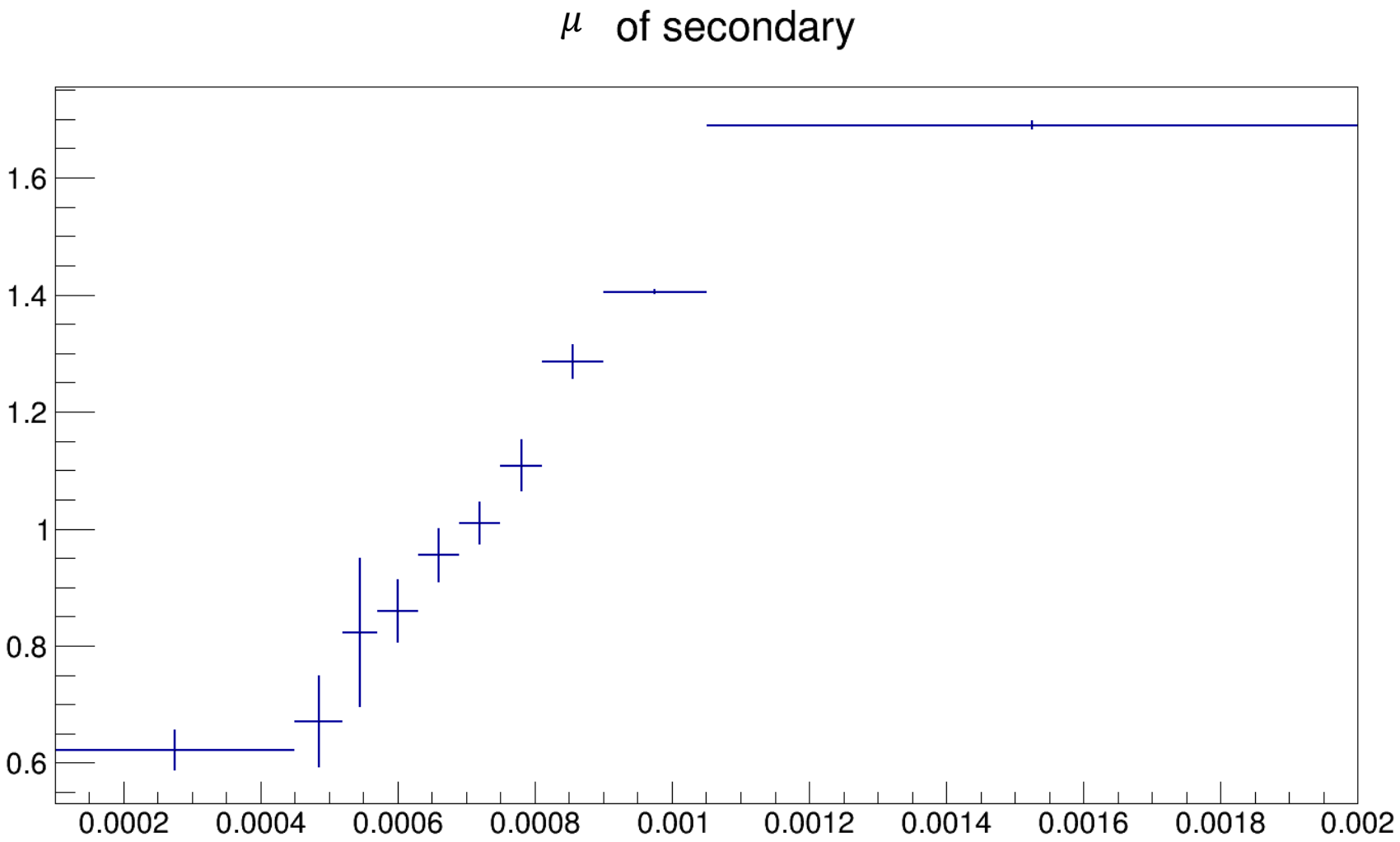
- ρ_1_p -5.1581e-02
- ρ_2_p -6.1655e-01
- σ_p 4.5315e-01
- ξ_p -1.6765e-01



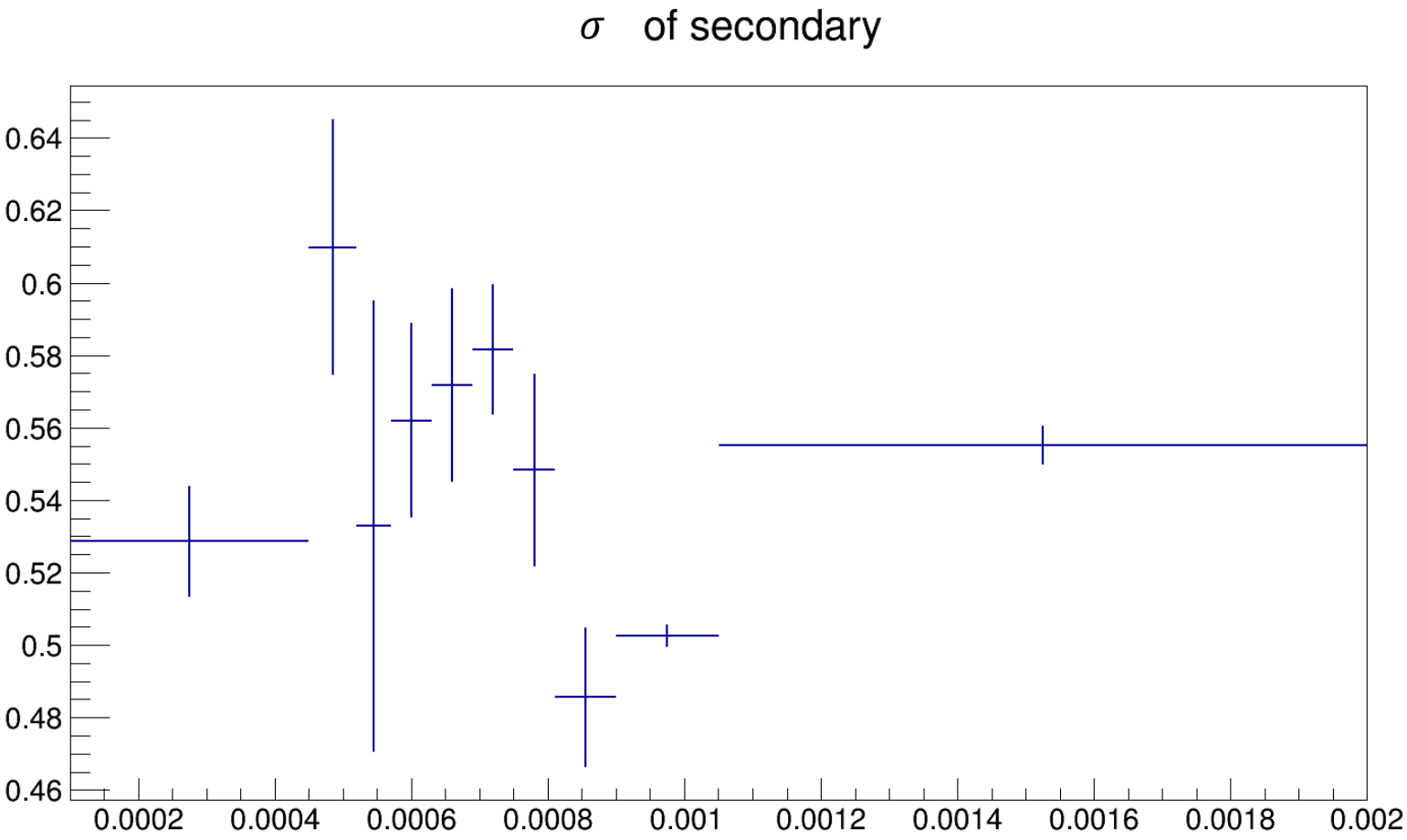
Para of secondary(fixed)

- ρ_1_s -8.2916e-01
- ρ_2_s -2.6357e+00
- ξ_s -4.9281e-02

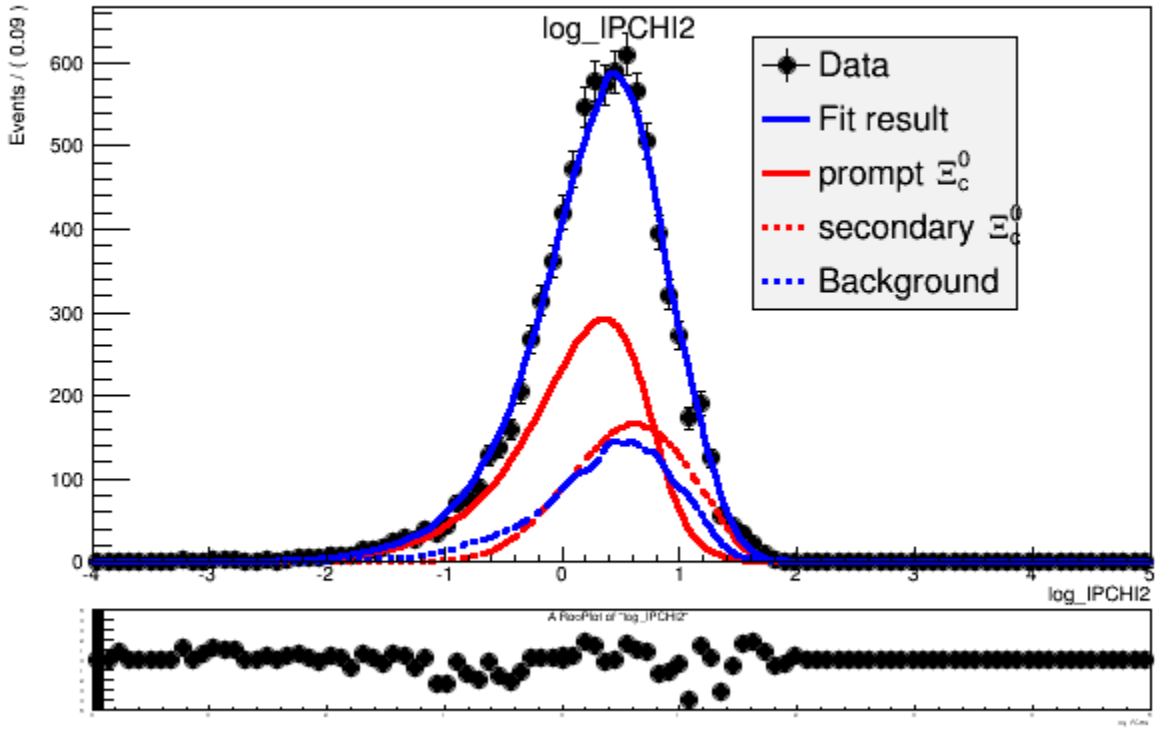
Para of secondary

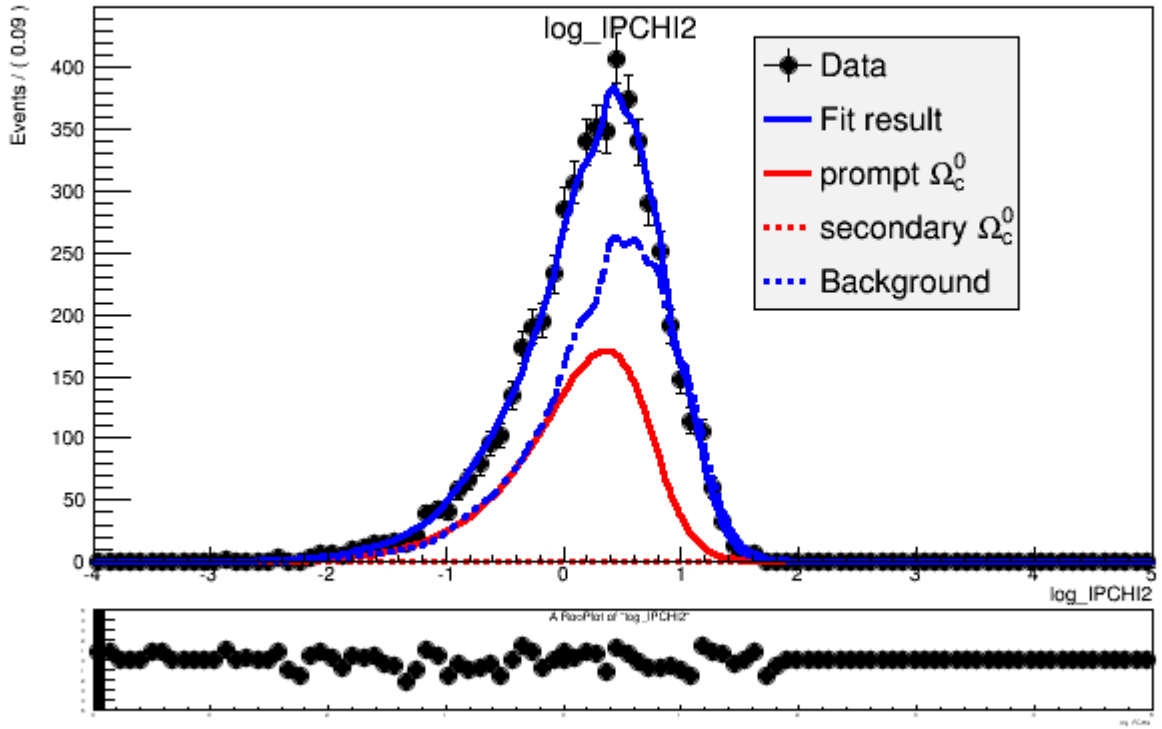


Para of secondary

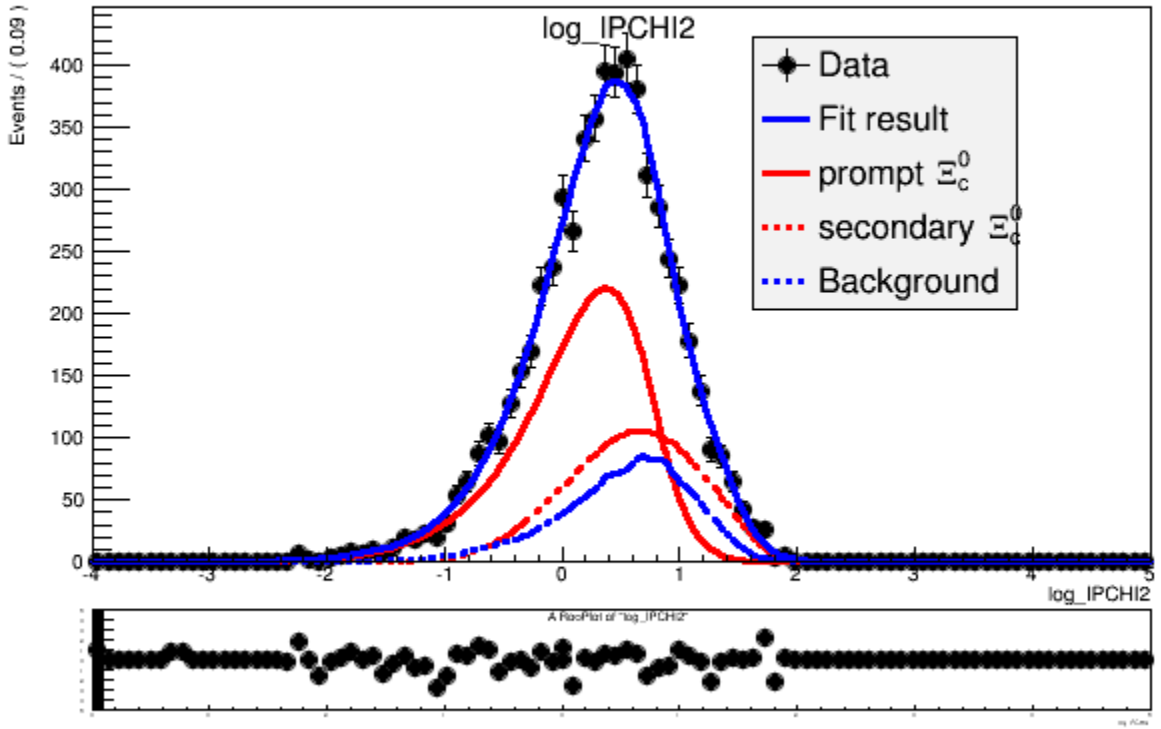


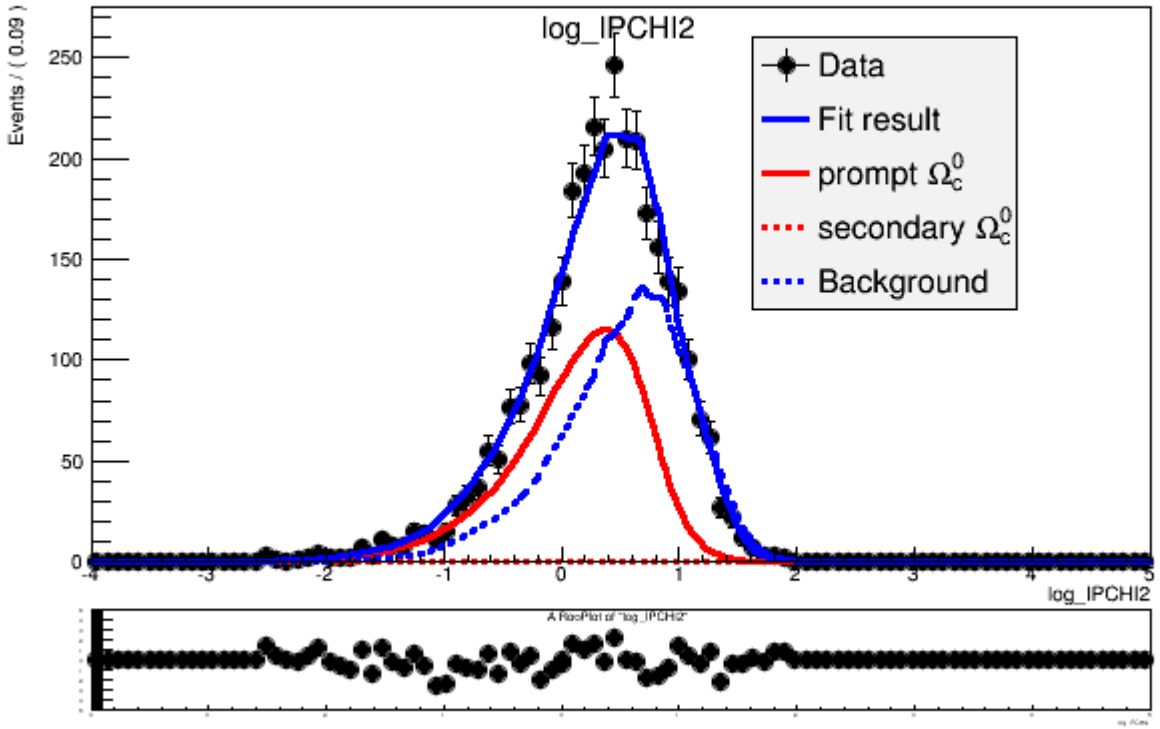
bin1


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2

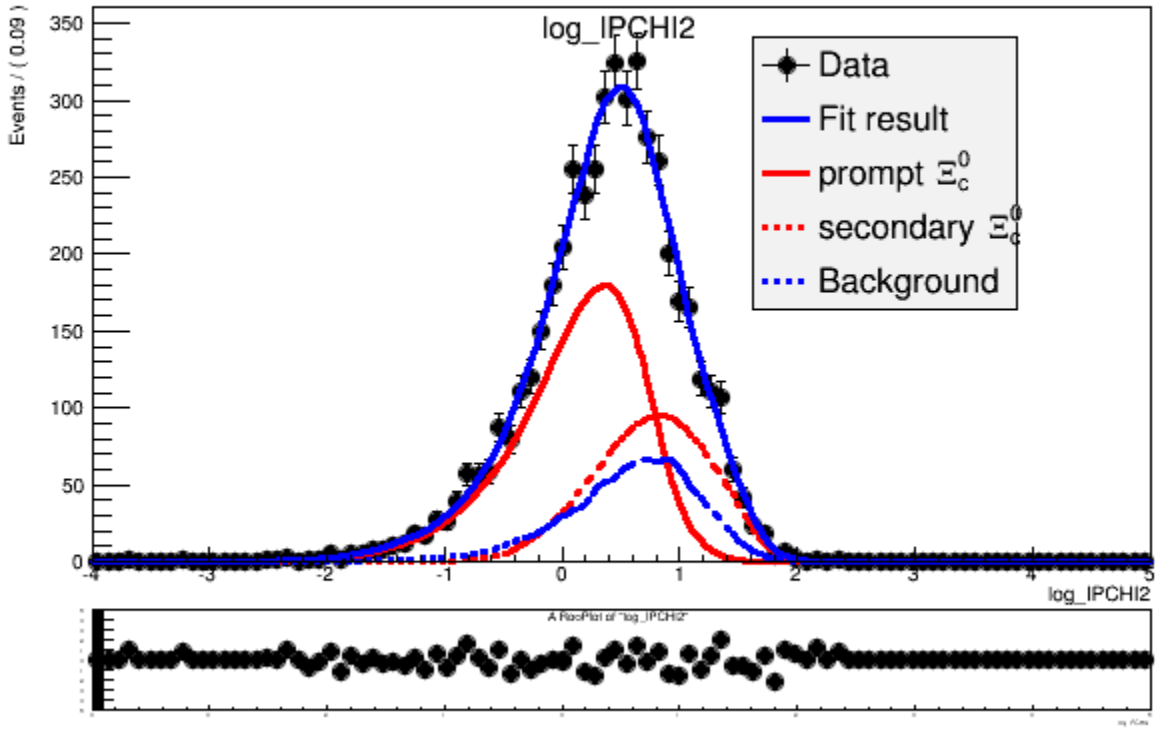

log_IPCHI2
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

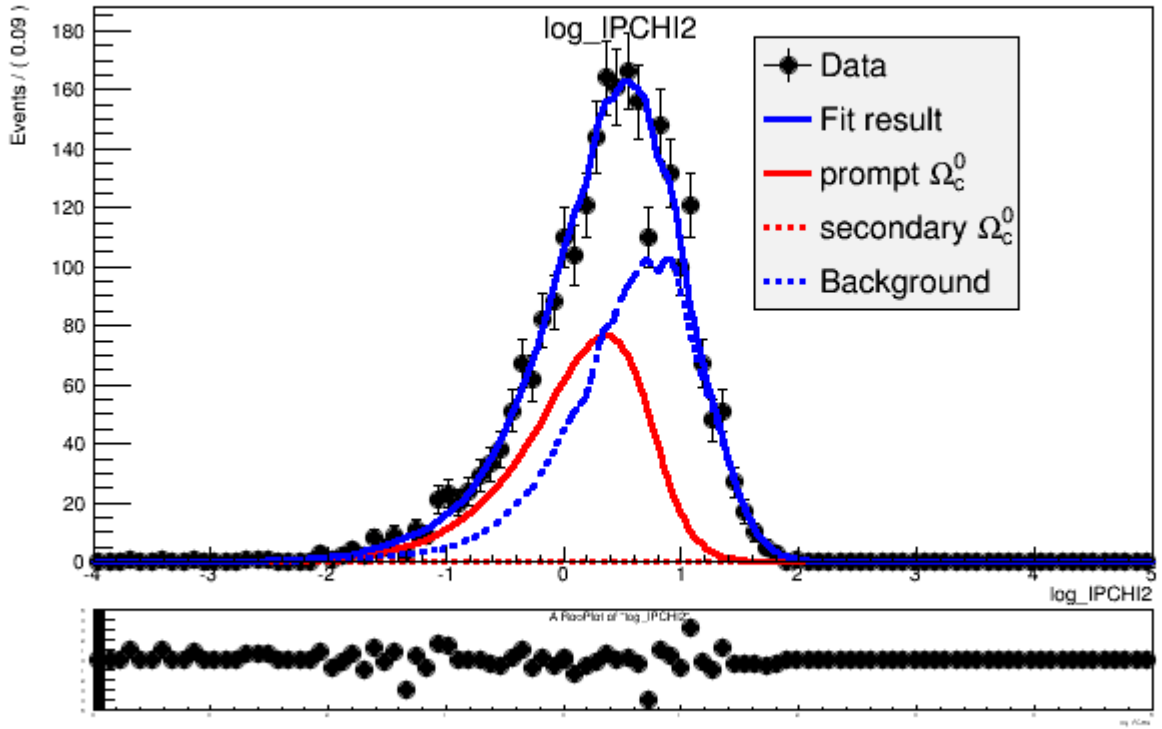
bin2


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2

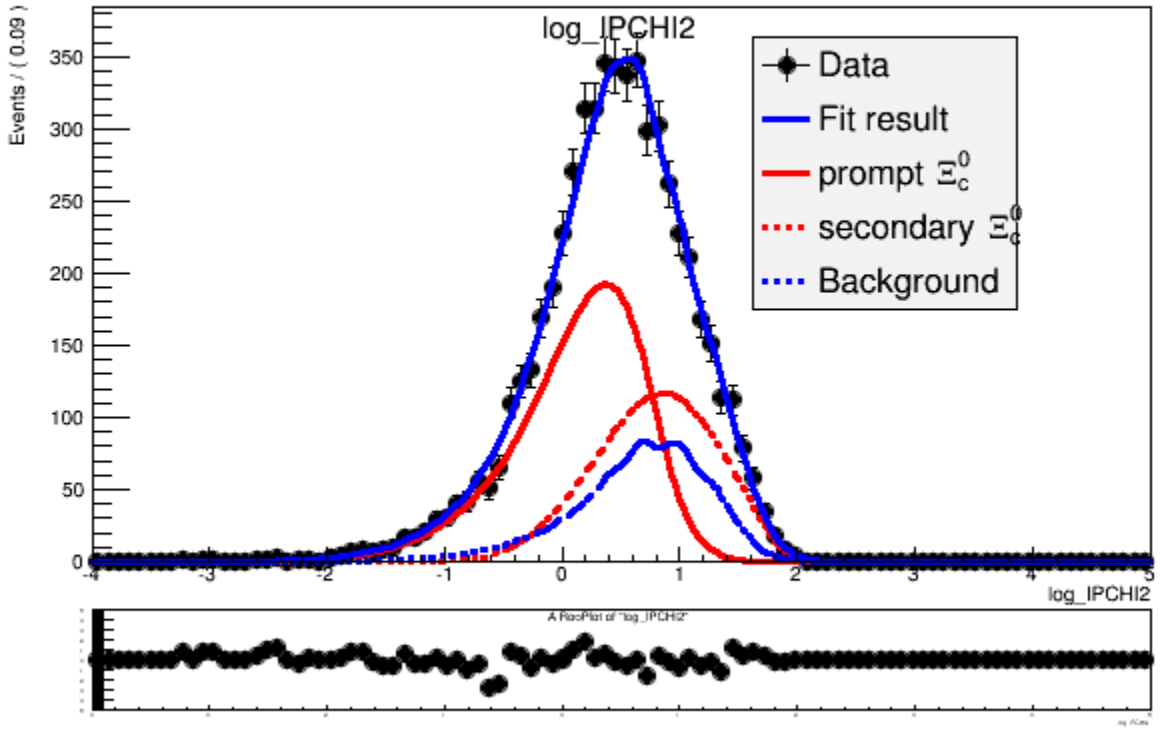

log_IPCHI2
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

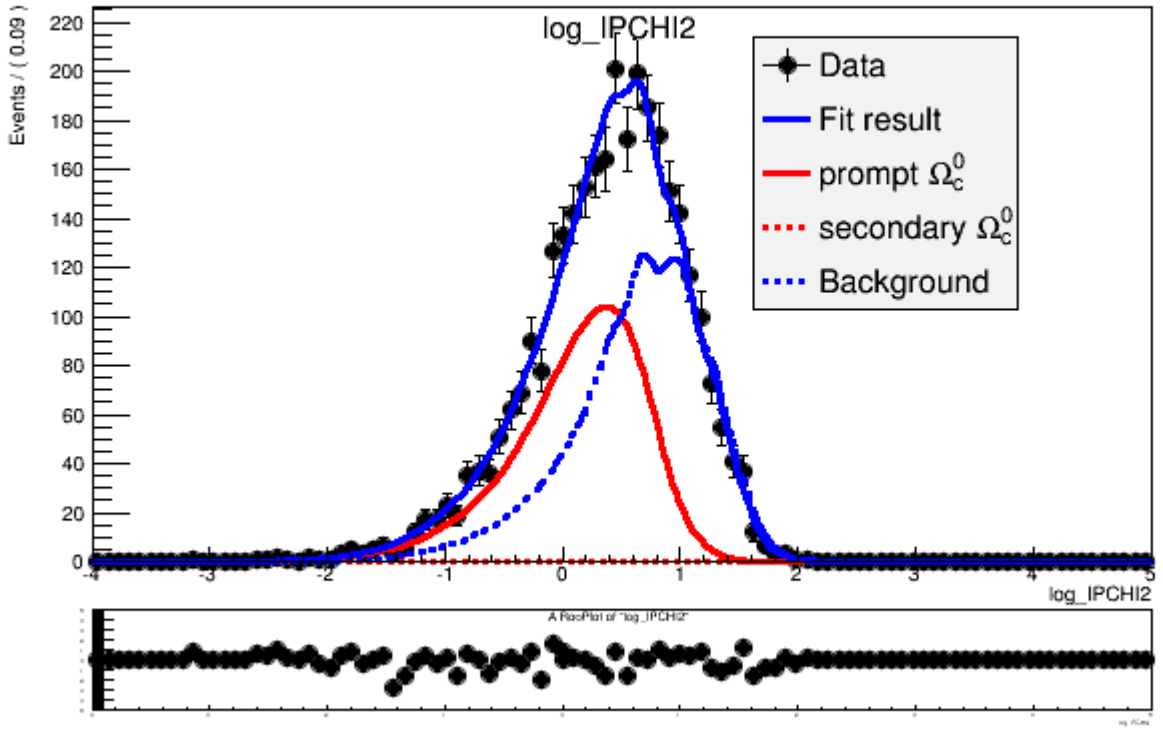
bin3


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2

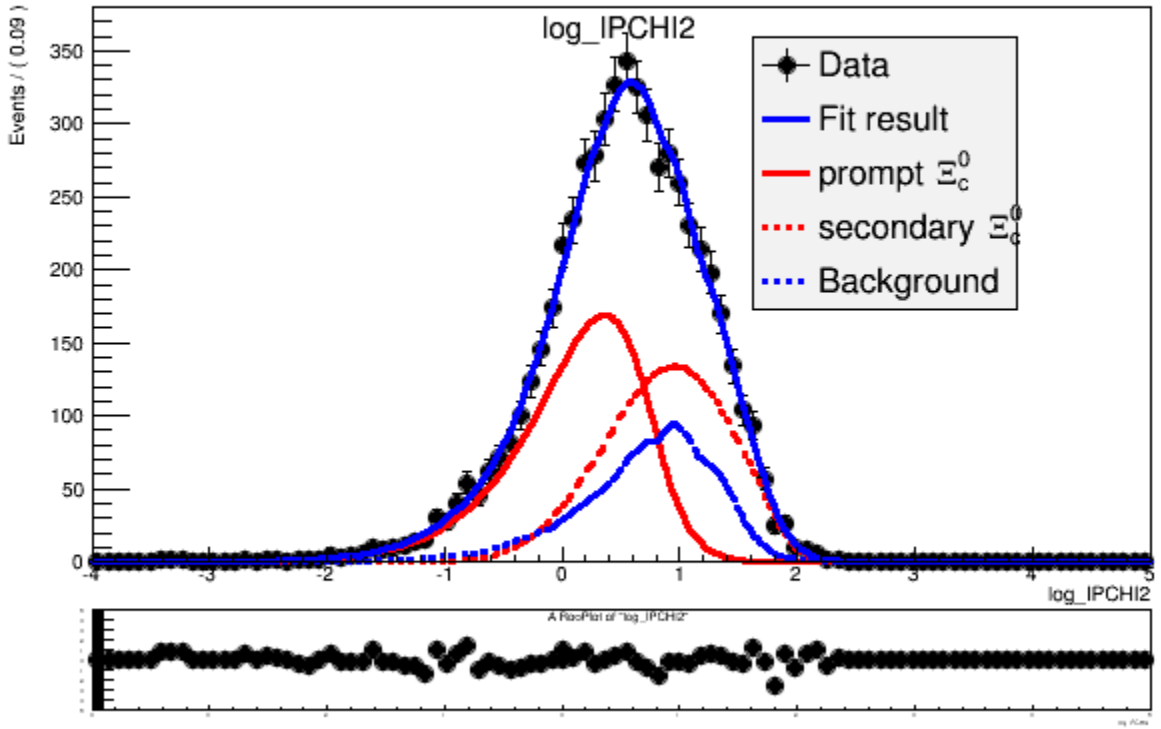

log_IPCHI2
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

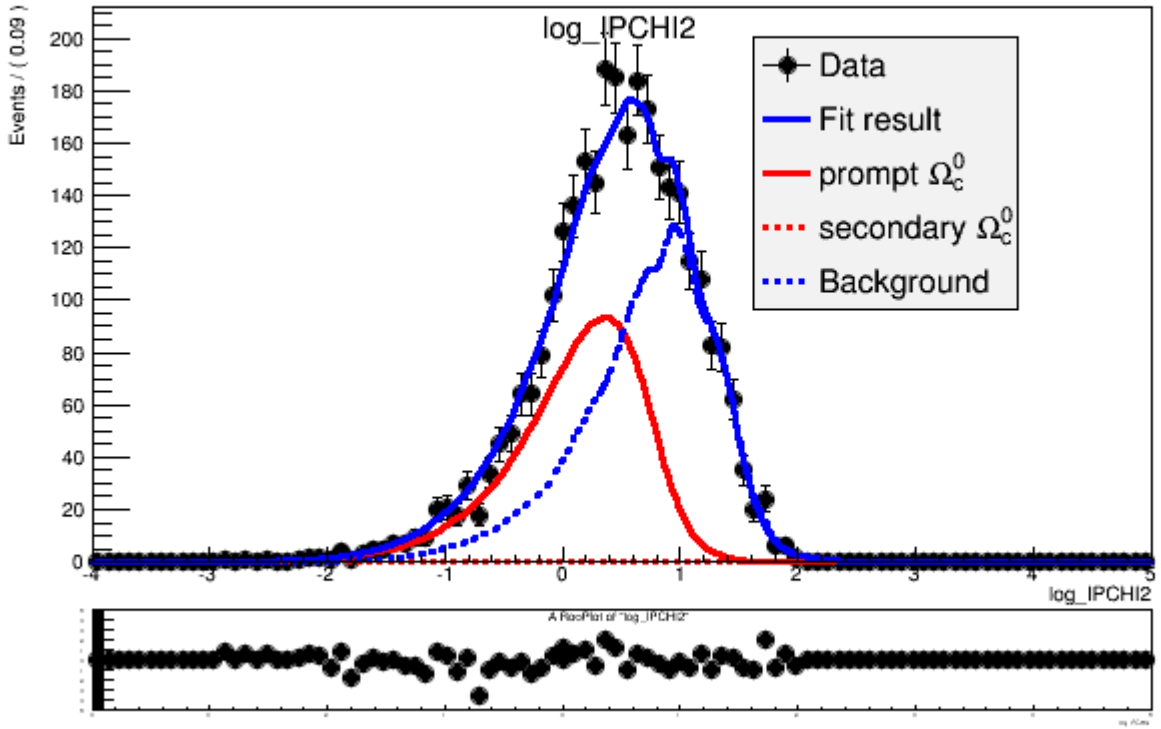
bin4


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2

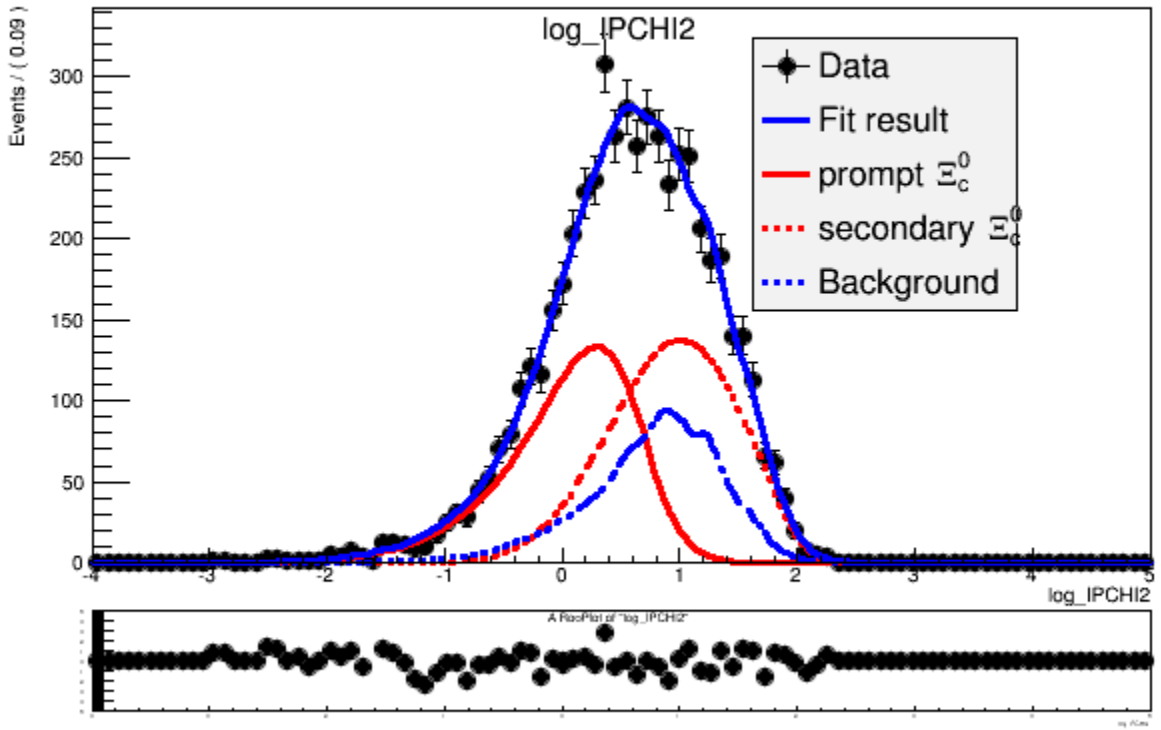

log_IPCHI2
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

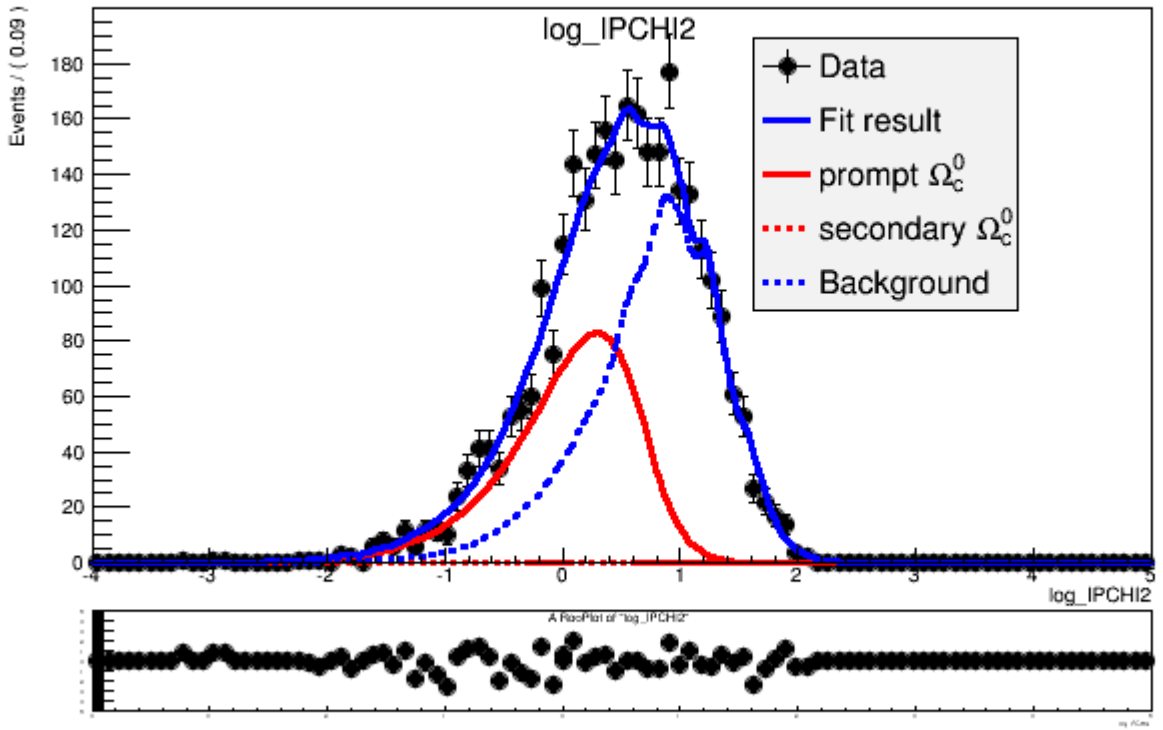
bin5


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2

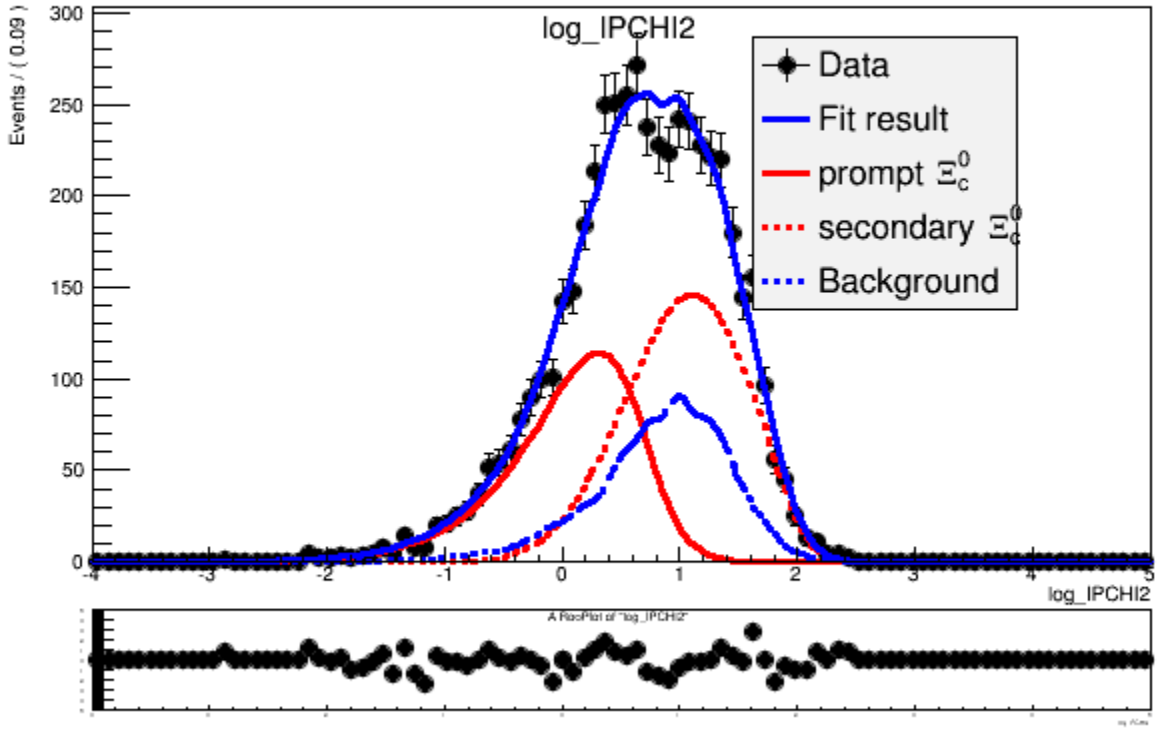

log_IPCHI2
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

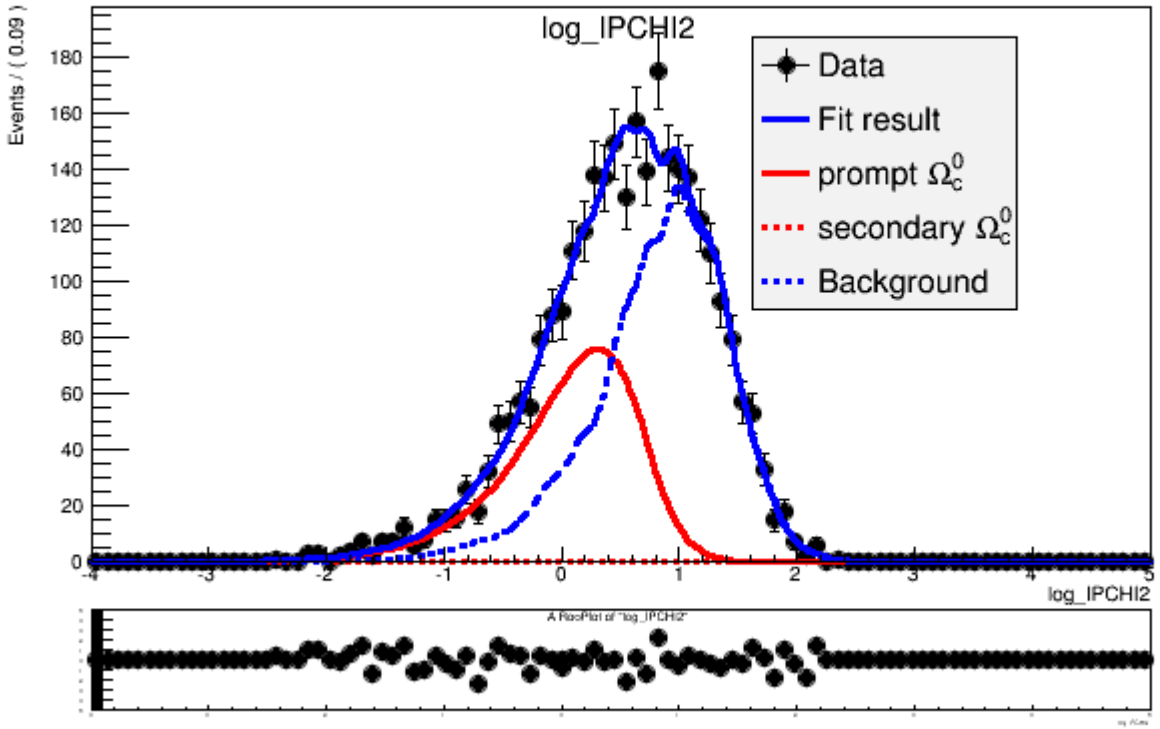
bin6


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2

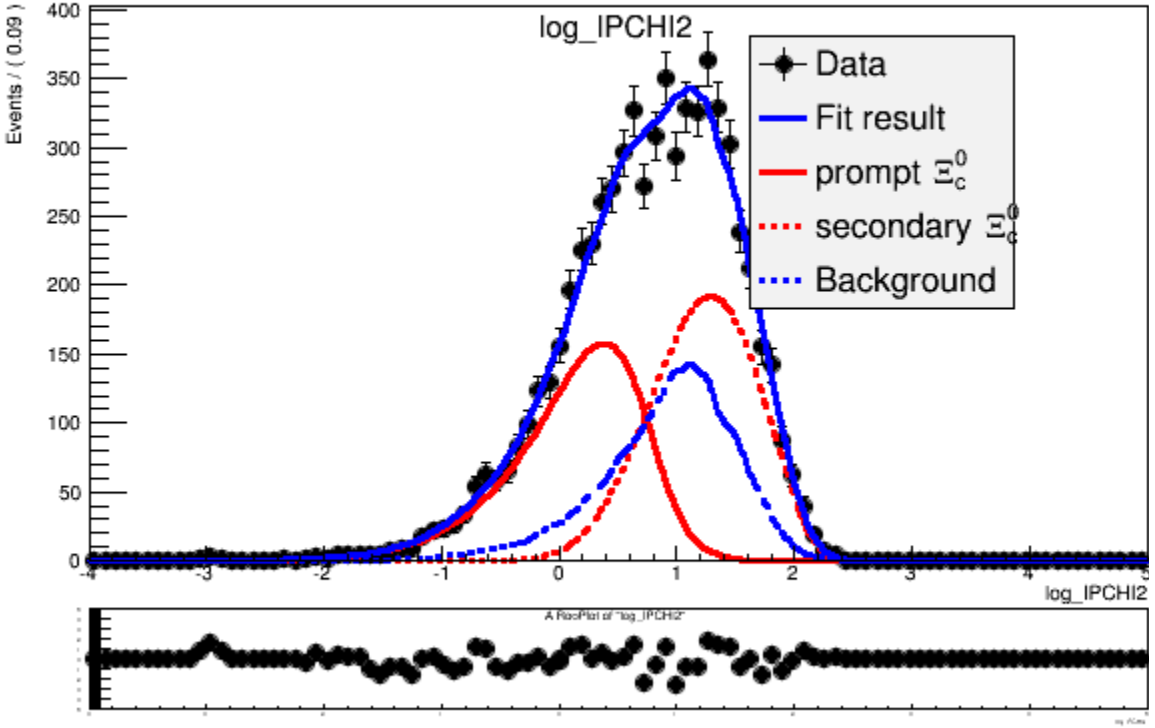

log_IPCHI2
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

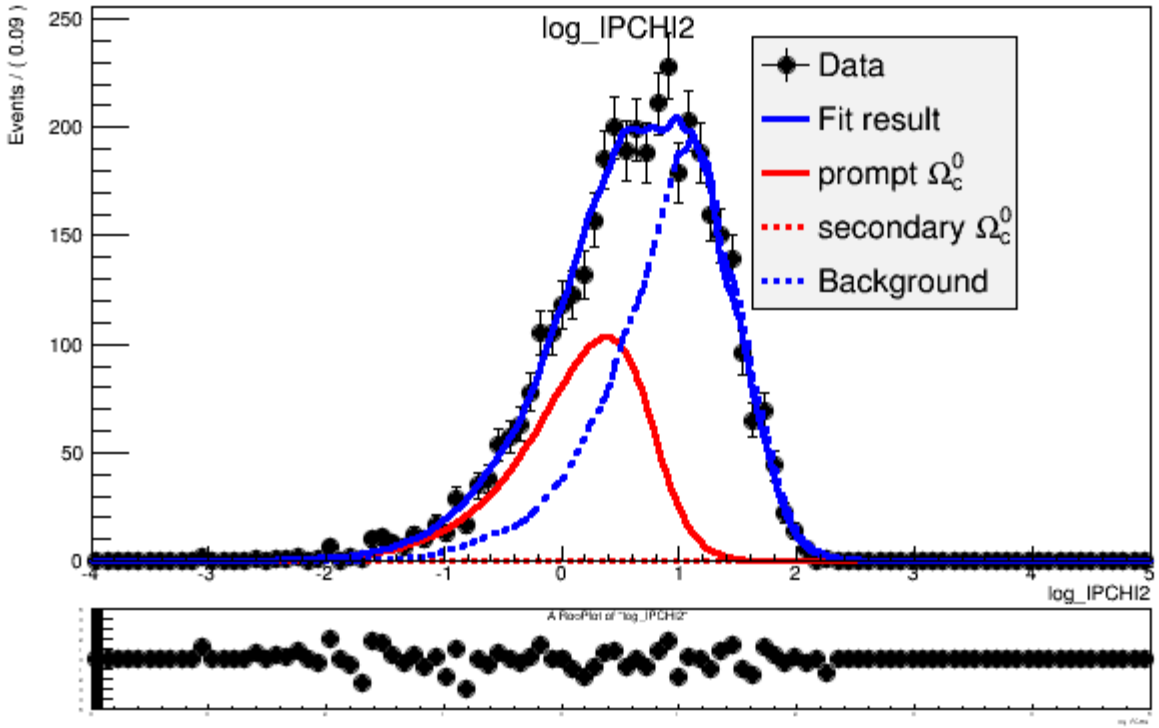
bin7


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2

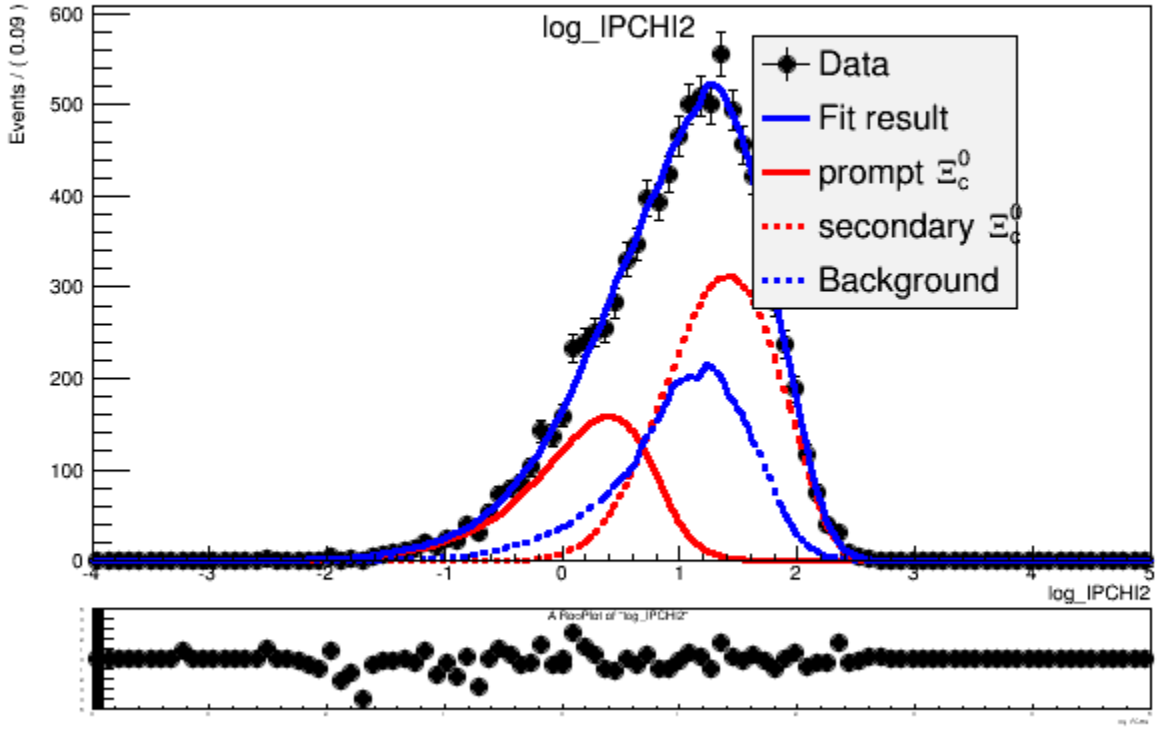

log_IPCHI2
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

bin8


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2


log_IPCHI2
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

bin9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Data
Fit result
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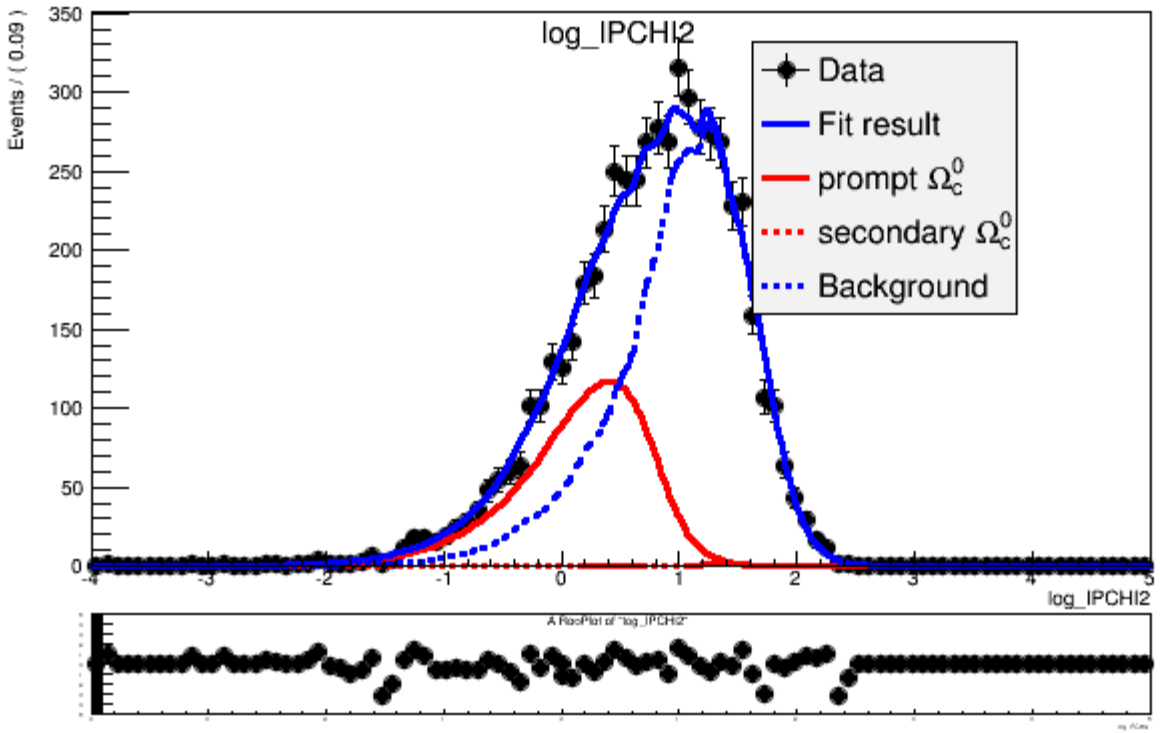
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2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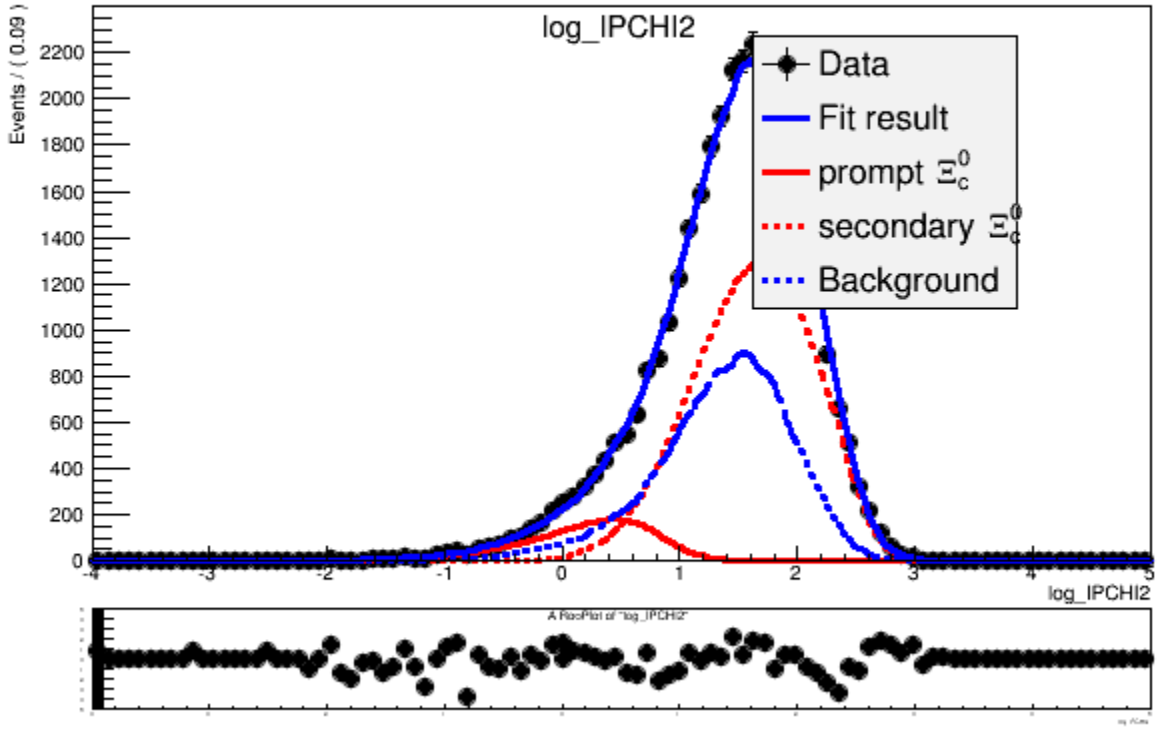
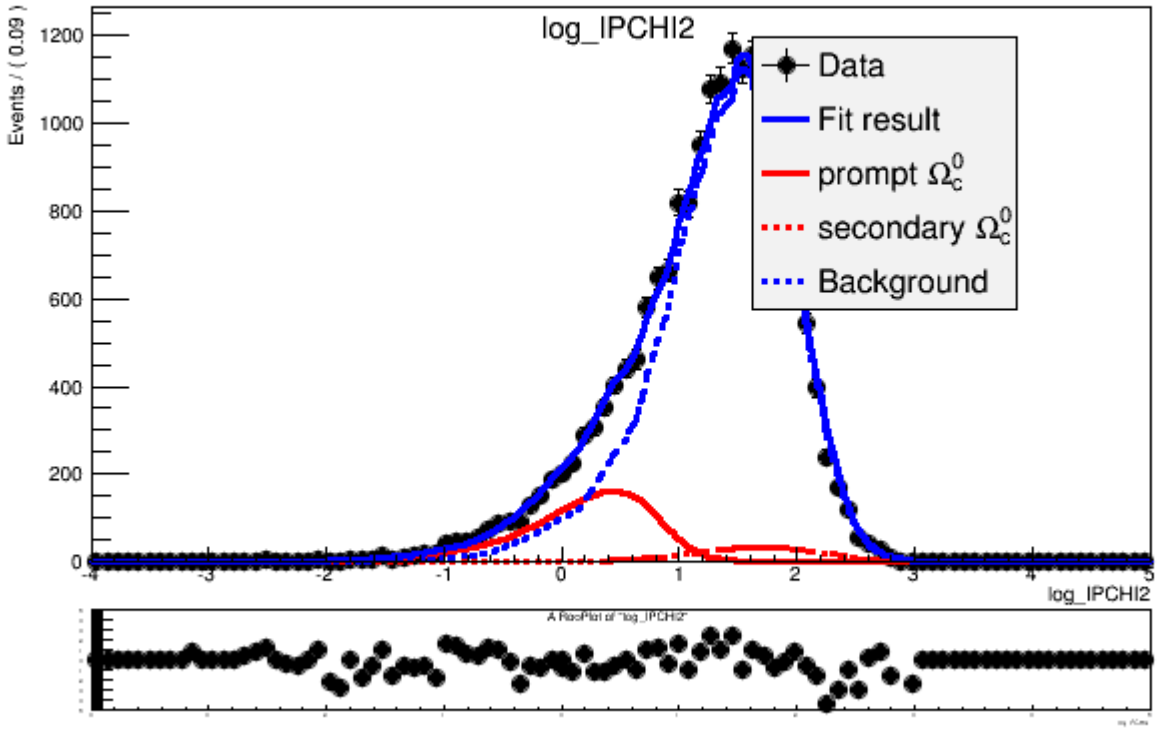
Data
Fit result
prompt Ω_c^0
secondary Ω_c^0
Background
Events / (0.09)
log_IPCHI2

bin10


log_IPCHI2
Data
Fit result
prompt Ξ_c^0
secondary Ξ_c^0
Background
Events / (0.09)
log_IPCHI2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Data
Fit result
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secondary Ω_c^0
Background
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log_IPCHI2