

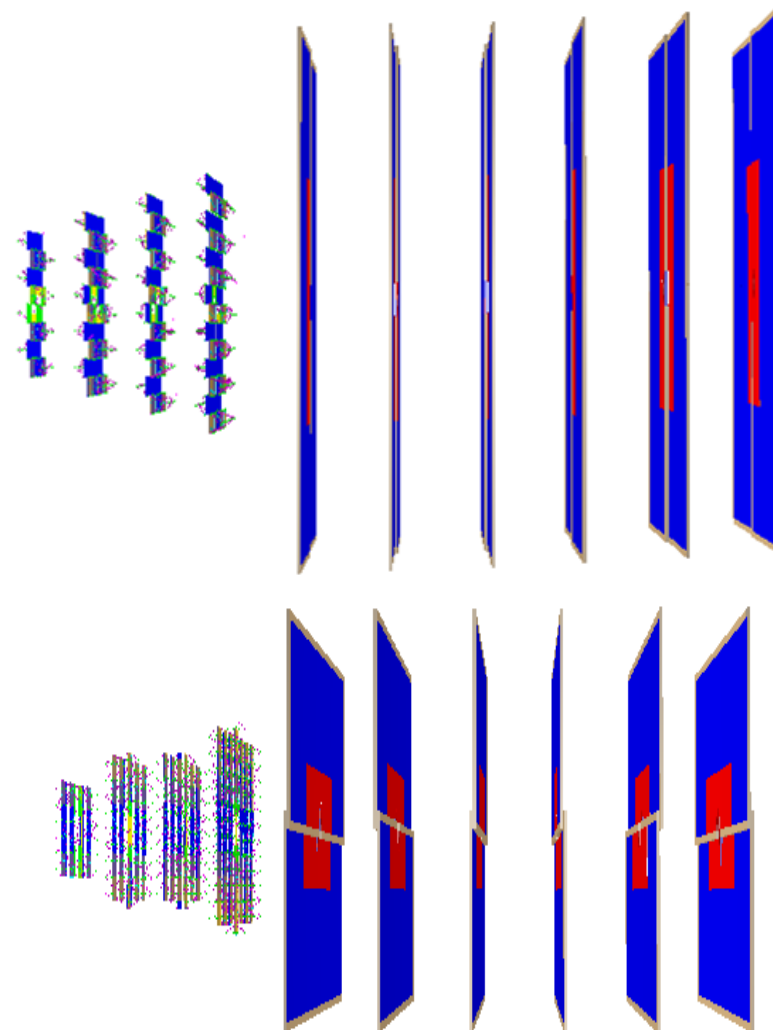
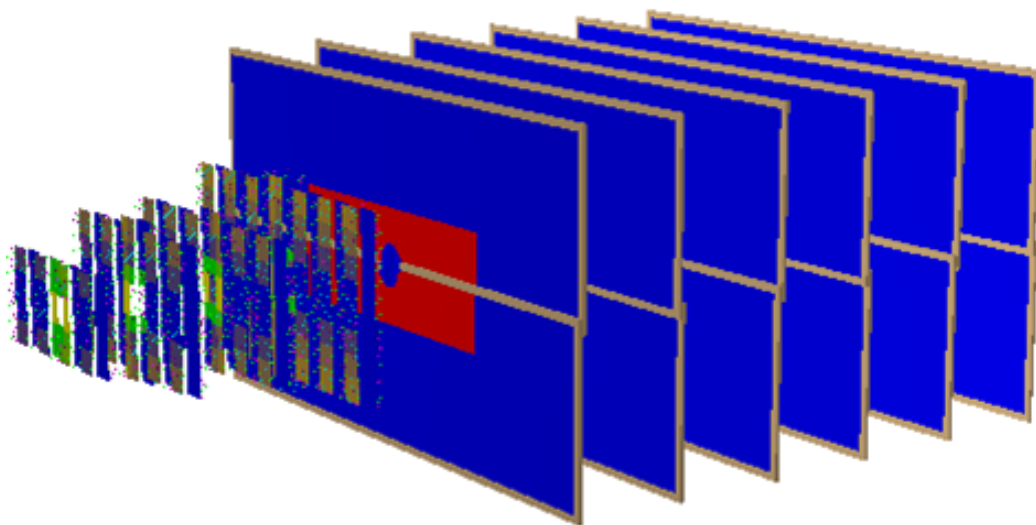


Strange object reconstruction with upgraded BM@N

A.Zinchenko, V.Vasendina

Geometry

A.Zinchenko



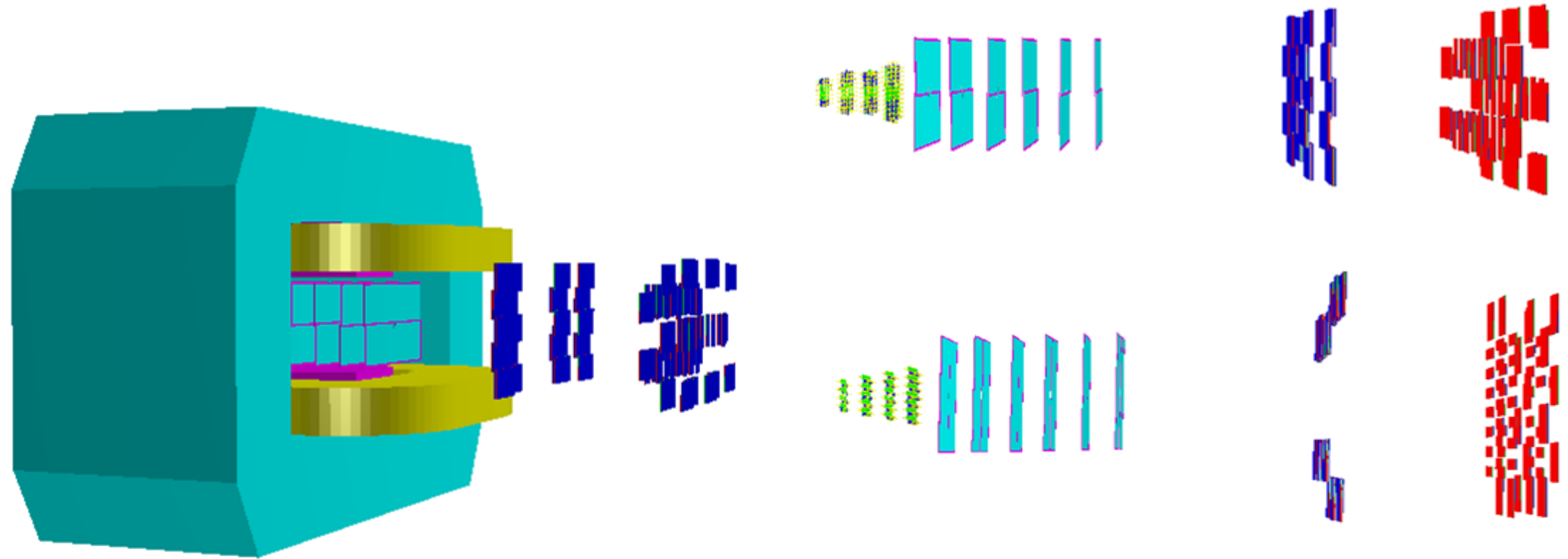
Stations (target at 0):

Si	30 cm	50 cm	70 cm	90 cm	(version "f" from E.Lavrik)	Beam hole 6x8 cm
GEMs	120 cm	150 cm	180 cm	210 cm	240 cm 270 cm	Beam hole R = 5.75 cm

Field: ~0.8 T

Geometry with TOF

A.Zinchenko



Stations (target at 0):

Si	30 cm	50 cm	70 cm	90 cm	(version "f" from E.Lavrik)	
GEMs	120 cm	150 cm	180 cm	210 cm	240 cm	270 cm

Field: ~0.8 T

10k Au+Au at $T_0 = 4$ GeV, $b = 0-5$ fm
(from V.Kireyeu)

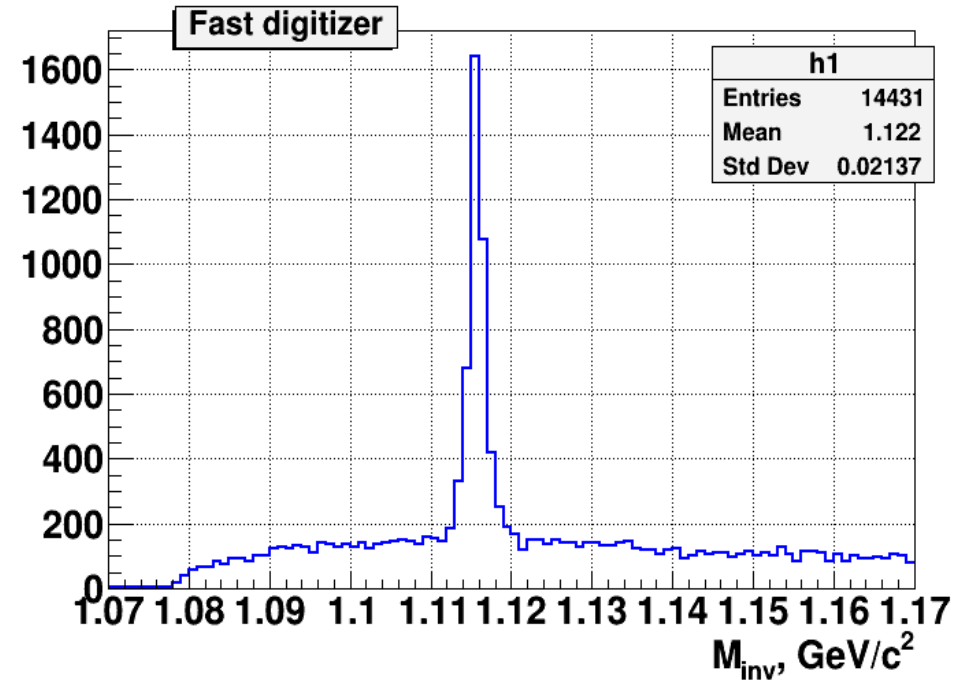
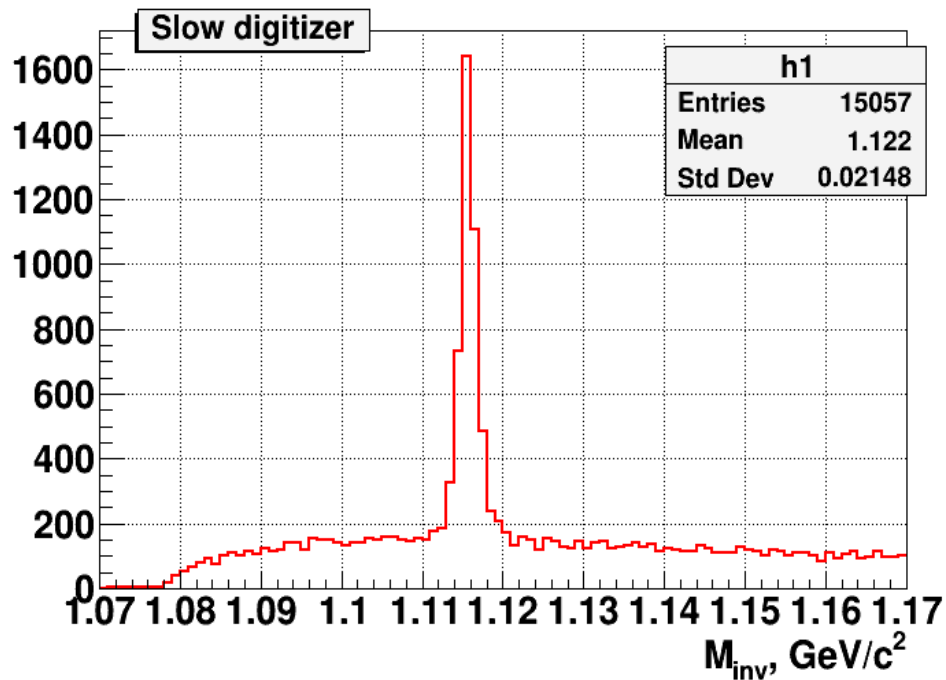
1) Lambda: 40859

2) Xi-: 529

3) H3L: 1689

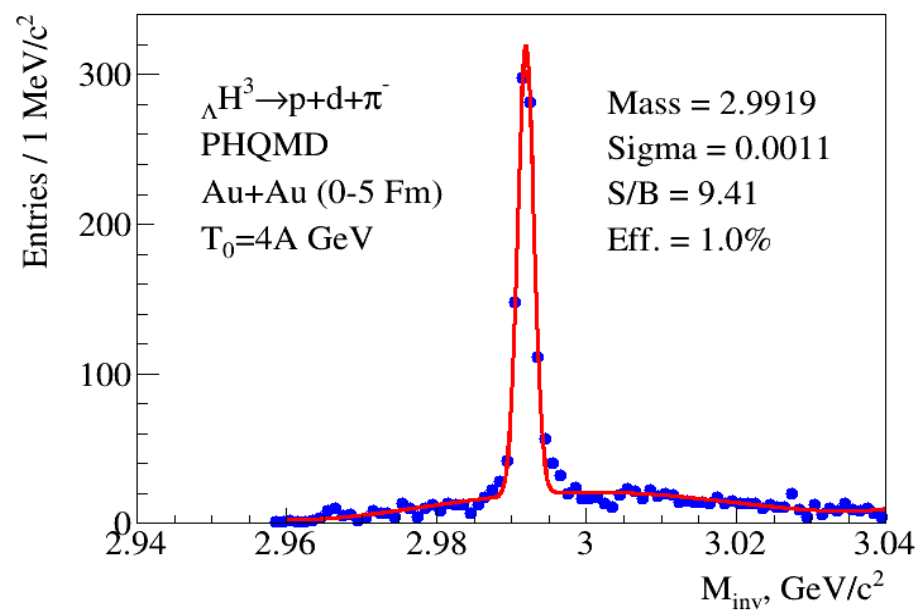
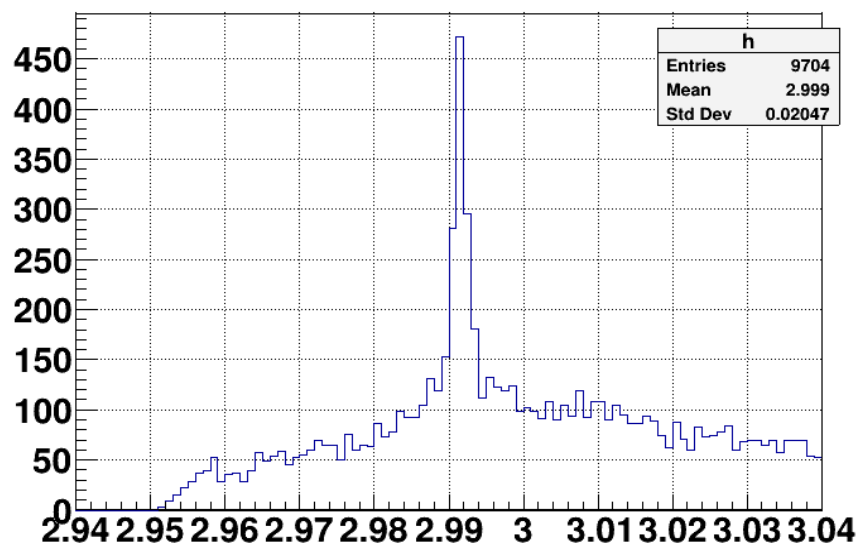
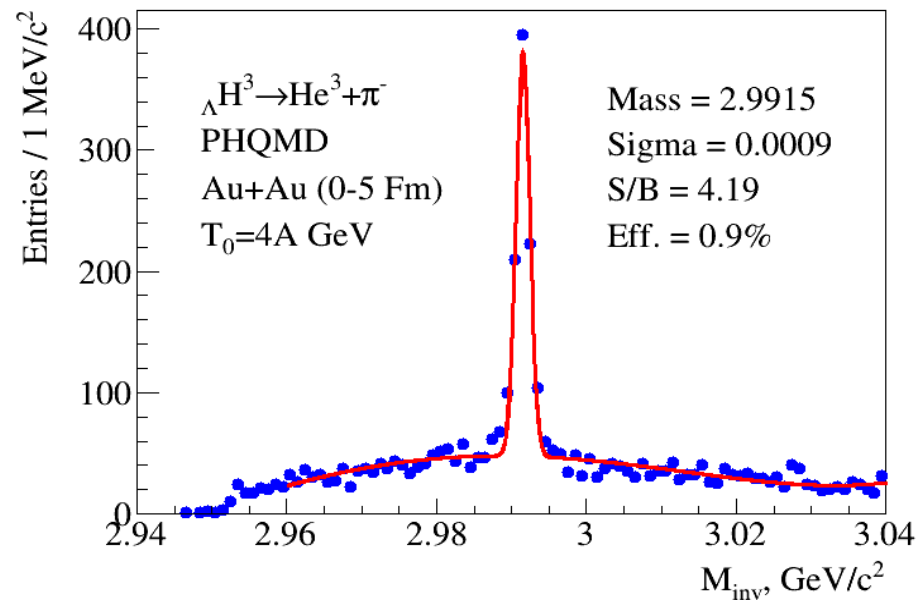
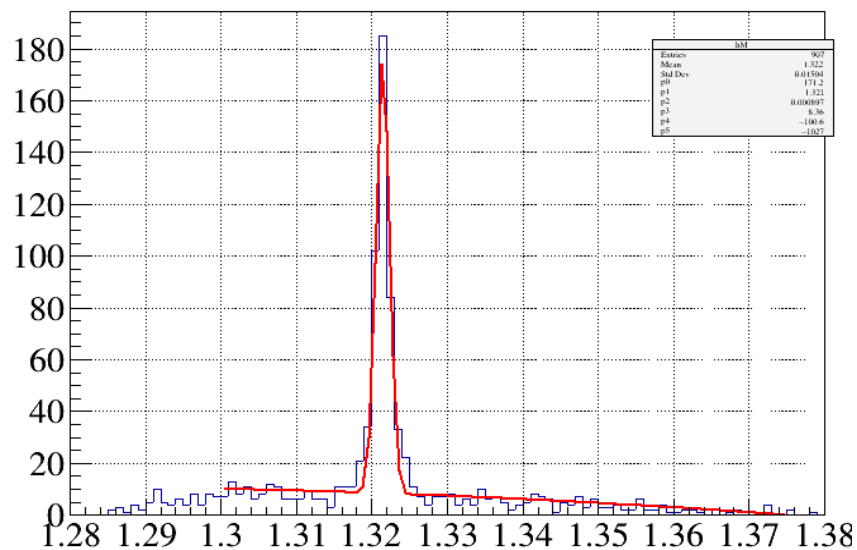
Lambda peak with slow and fast digitizers in GEMs

Factor of 3.9 decrease in processing time



$$\chi^2_P > 5, \chi^2_\pi > 5, \lambda_\Lambda > 5 \text{ cm}, \chi^2_\Lambda < 20, \text{angle}_\Lambda < 0.1$$

Xi- and H3L reconstruction



H3L phase space

