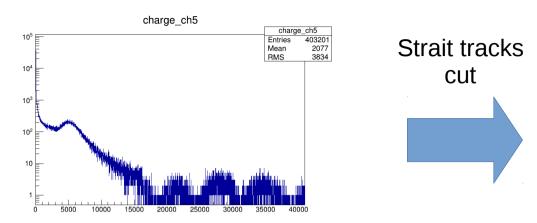
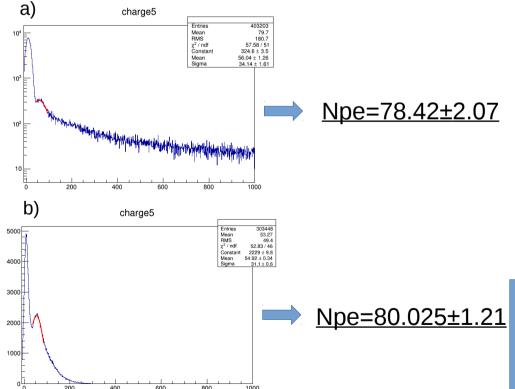
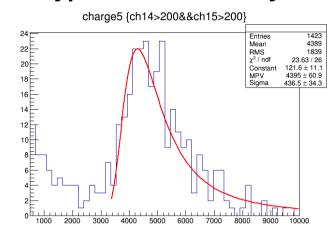
PWO crystal Light Yield measurements in prototype with cosmic rays



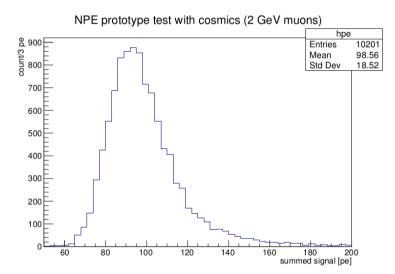
Pic.1 Integral (charge) in central segment all tracks



Pic.3 Single electron amplitude measurements: a) Cross talks b) LED measurements (in the hallD)



Pic.2 Integral (charge) in central segment (strait tracks)



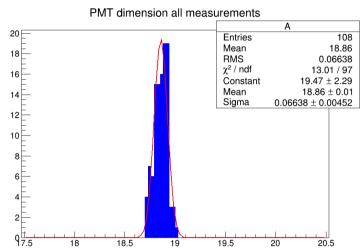
Pic.4 GEANT4 simulation by Vardan

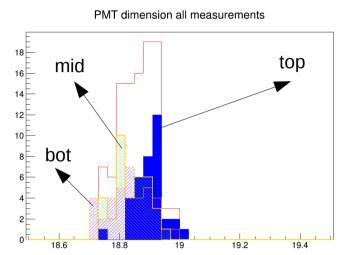
Straight muon track deposited in crystal ~20MeV		
<u>Method</u>	Light Yield(pe/MeV)	<u>Note</u>
- Na22 source		(18C, big PMT)
- cosmics	3.921±0.104	(sp.e. by cross talk)
- cosmics (b)	4.001±0.006 ((sp.e. by LED meas)
-simulation	4.928	(total spectra)
-simulation	4.3	(event by event)

PMT dimension measurements

36 PMT`s measured with HeightGage Tool Each PMT measured in 3 points (top,mid,bot) Systematic errors is ~25 um

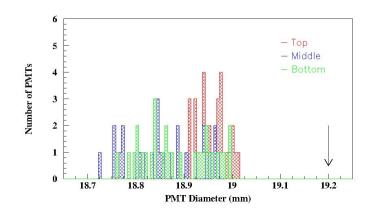






 $PMT \emptyset = (18.86 \pm 0.066) mm$

30 PMT`s measurements with micrometer by Hamlet Each PMT measured in 1 point Systematic errors is ~25 um



<u>Crystals visual inspection and dimension measurements</u> (update)

- 40 more crystals (30 from "newest" package 3)
- 20 crystals (all from package 3) have some major defects
 - -3 crystals have smaller size (20.1mm)
 - -17 visual defects (old/scratch labels, lot of dots structures in the volume, chemical film and etc)

