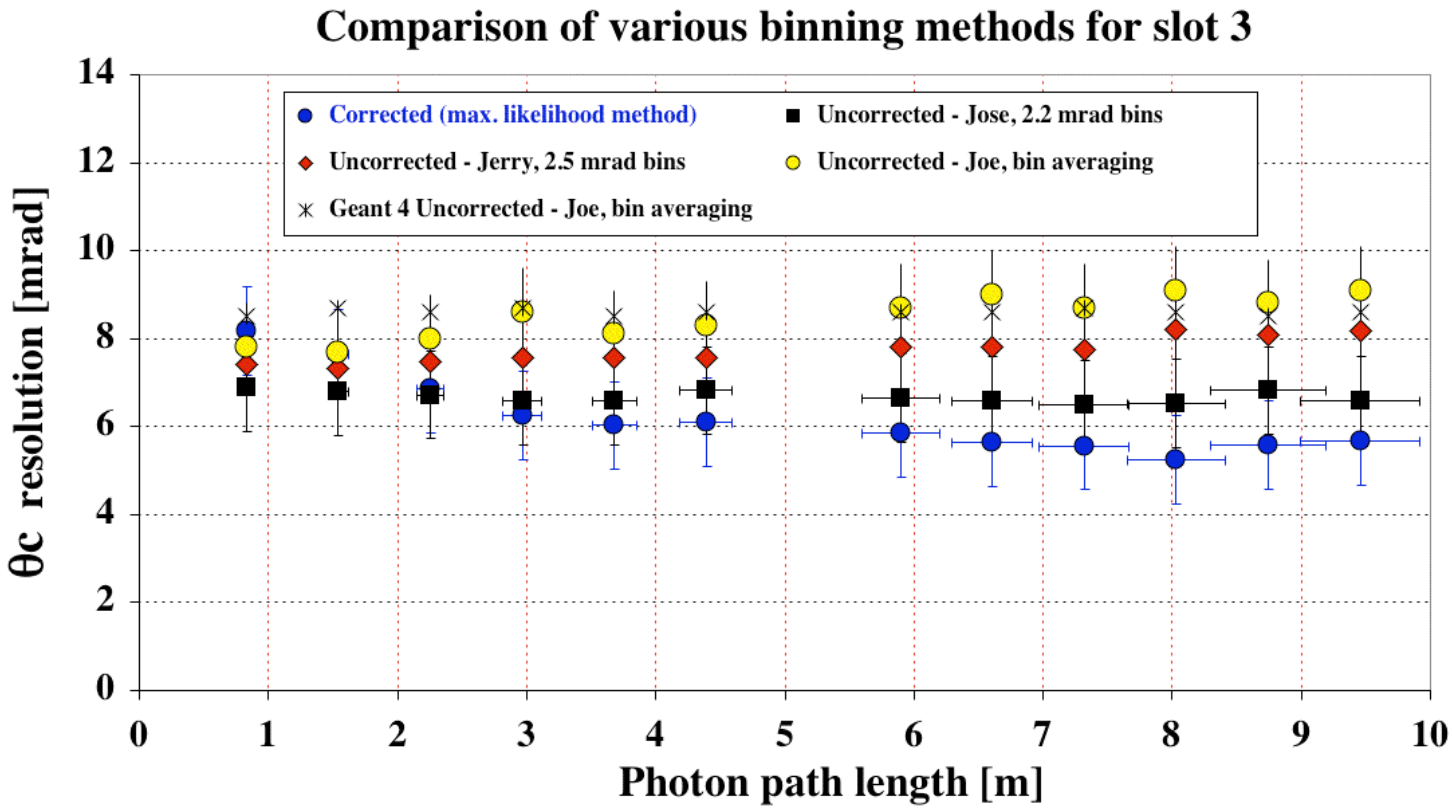
Analysis of runs 16-22

- **Cherenkov angle resolution for various binning methods by Jose, Joe and Jerry**

Cherenkov angle resolution for various binning methods



- **Assumptions:**

  a) Jose: show his IEEE data with 2.2 mrads/bin

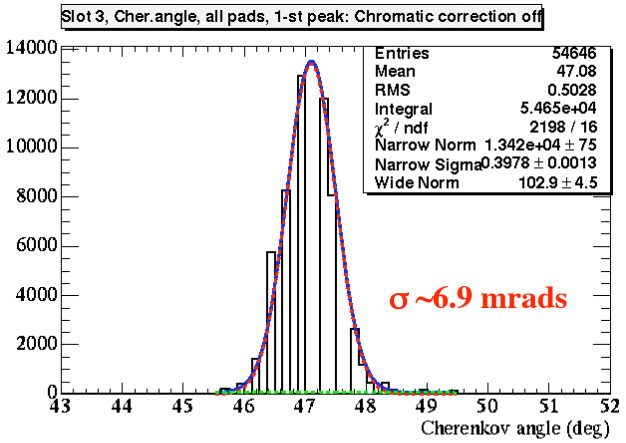
  b) Jerry: 2.5 mrads/bin, apply a cut on the 2-nd peak to eliminate double hits

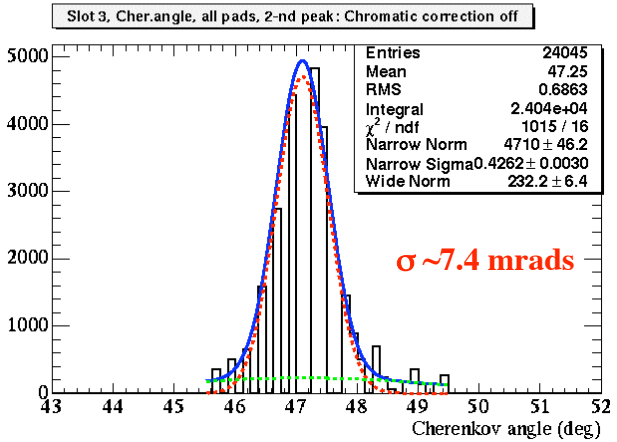
  c) Joe: Apply the bin averaging method both in data and in MC.

Slot 3 Cherenkov angle based on pixels - uncorrected

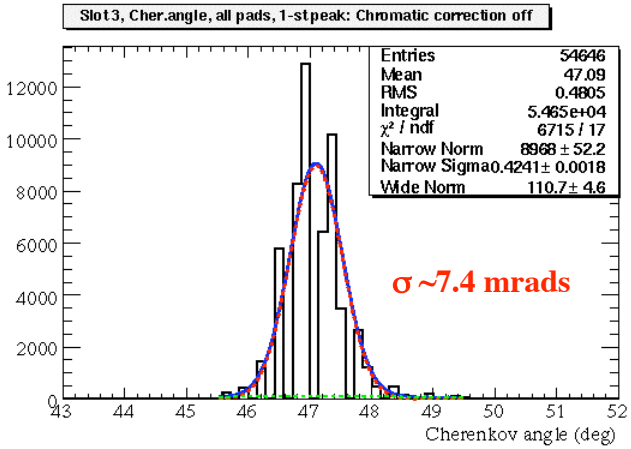
- **Position 1, run 22, Slot 3, Jerry's analysis**
- Double Gaussian fit; fix the 2-nd Gaussian sigma to 2.2°
- Fix mean of both Gaussians to 47.1°; vary norms 1 & 2
- Apply cut on data in the 2-nd peak if they arrive within an inte4rval <50ps, 1ns>

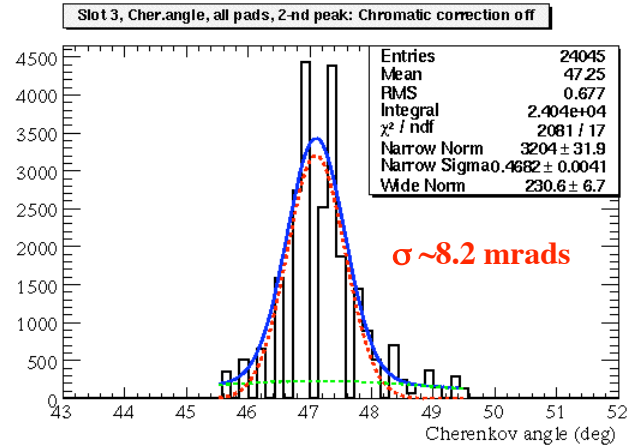
~ 2.2 mrad/bin





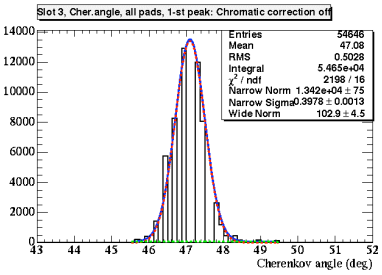
~ 2.5 mrad/bin

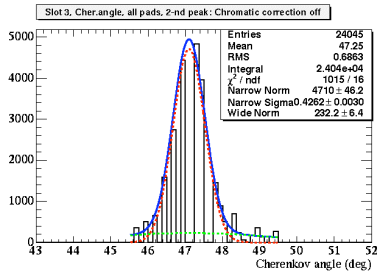




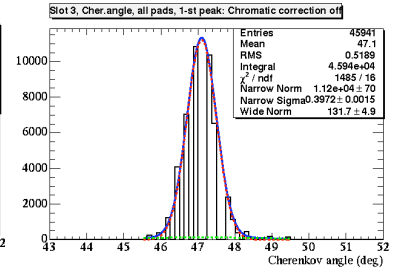
Slot 3 Cherenkov angle based on pixels - uncorrected

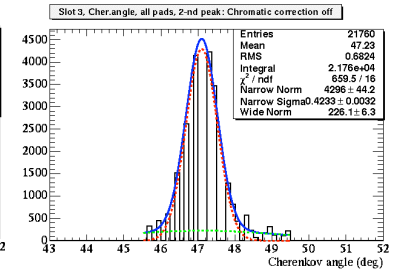
Position 1



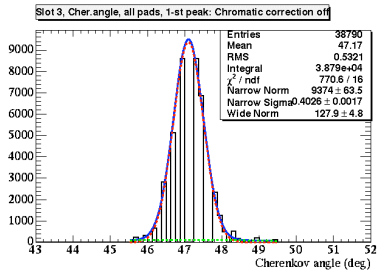


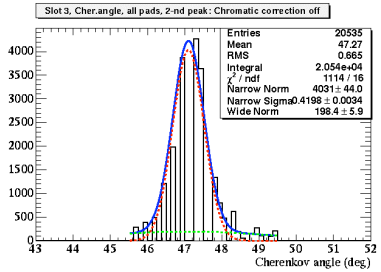
Position 2



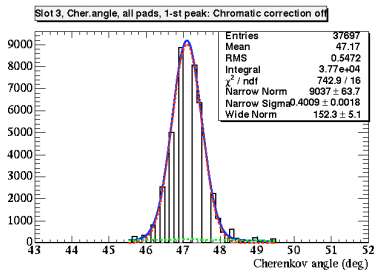


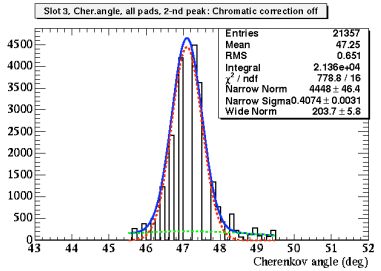
Position 3



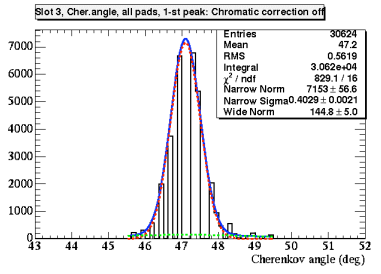


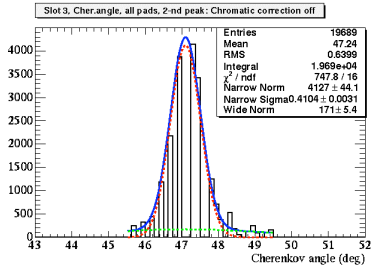
Position 4



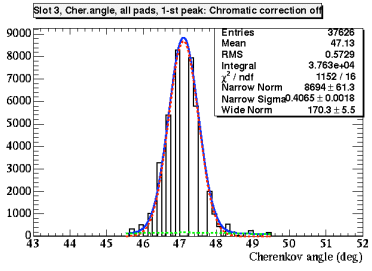


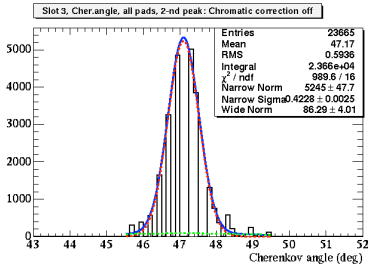
Position 5





Position 6

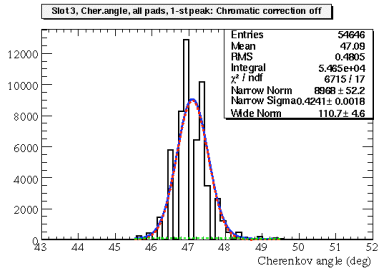


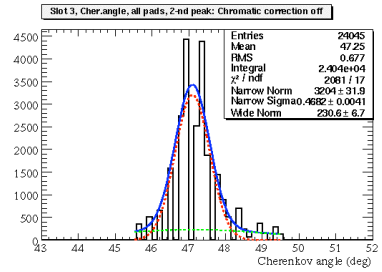


- Double Gaussian fit.
- Bin size: ~**2.2 mrads/bin**
- Float both normalizations, fix the mean values.
- Fix the 2-nd Gaussian sigma to 2.2°.

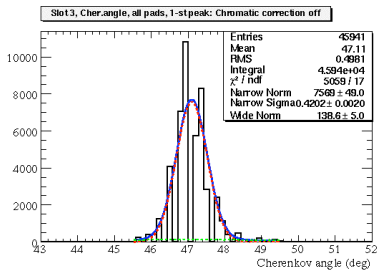
Slot 3 Cherenkov angle based on pixels - uncorrected

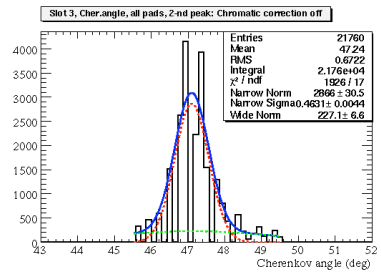
Position 1



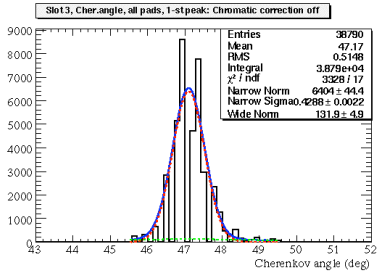


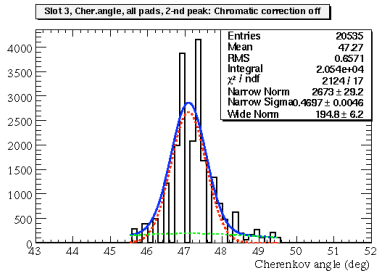
Position 2



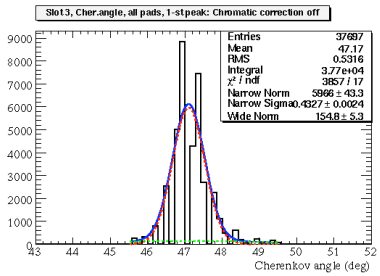


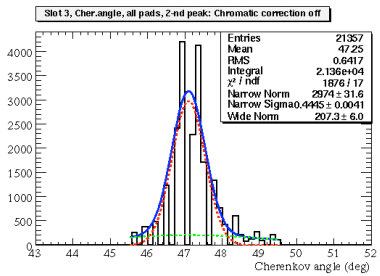
Position 3



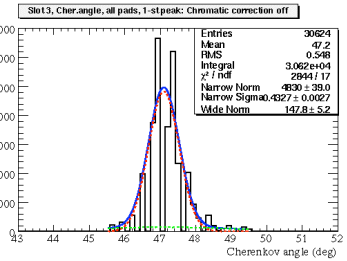


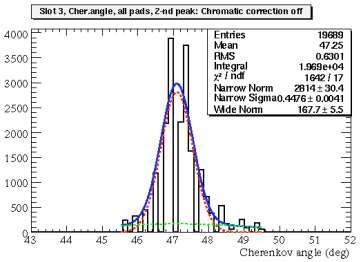
Position 4



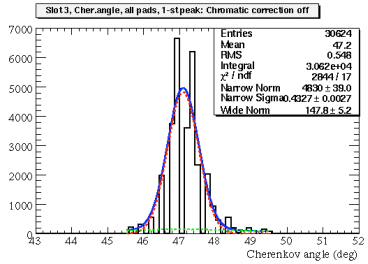


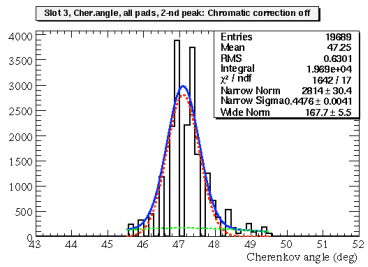
Position 5





Position 6





- Double Gaussian fit.
- Bin size: ~**2.5 mrads/bin**
- Float both normalizations, fix the mean values.
- Fix the 2-nd Gaussian sigma to 2.2°.