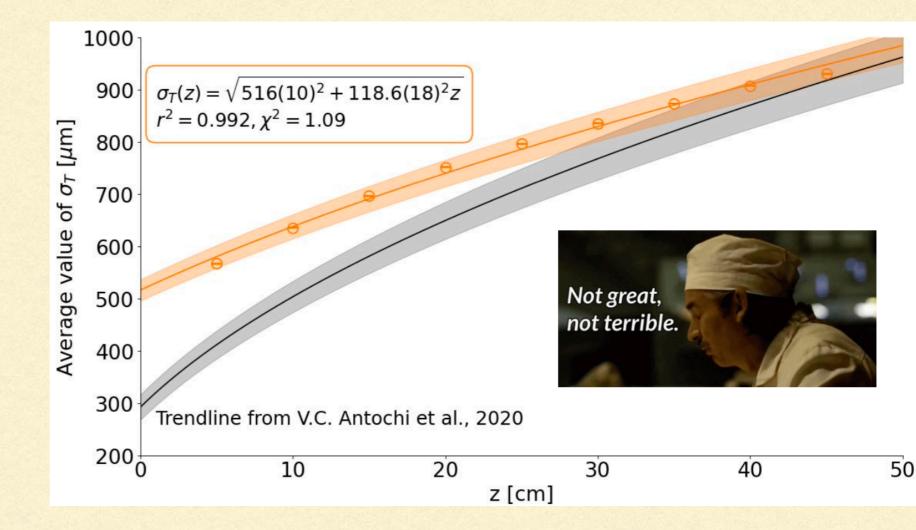
Update on Data-MC comparison with S-Plot

S.Torelli - E.Baracchini - E.Di Marco

New diffusion

Tracks have been redigitized using the digitization parameters presented by Rita Roque

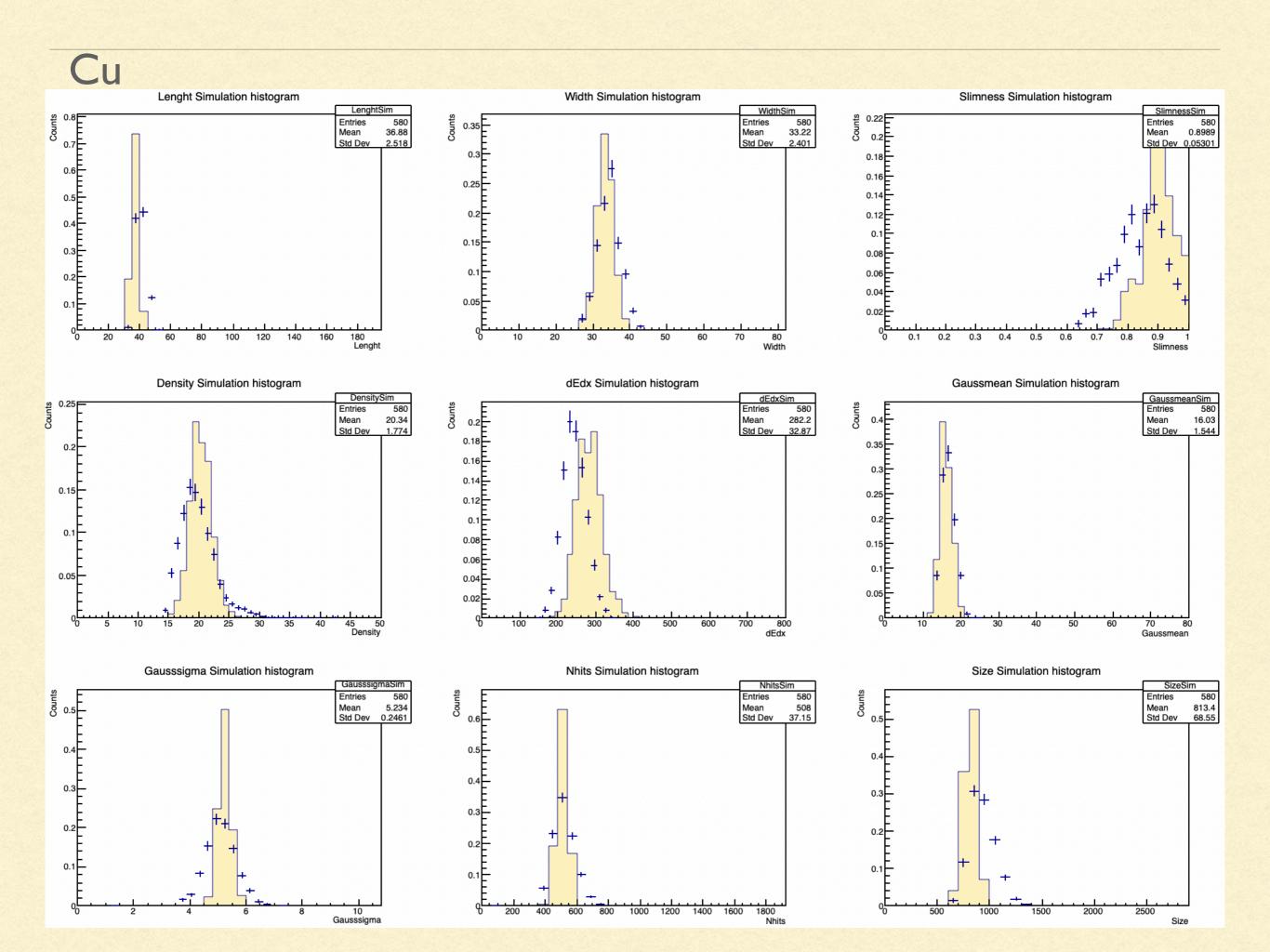
Increasing the diffusion should lower the density (that resulted to be too high in the simulation)



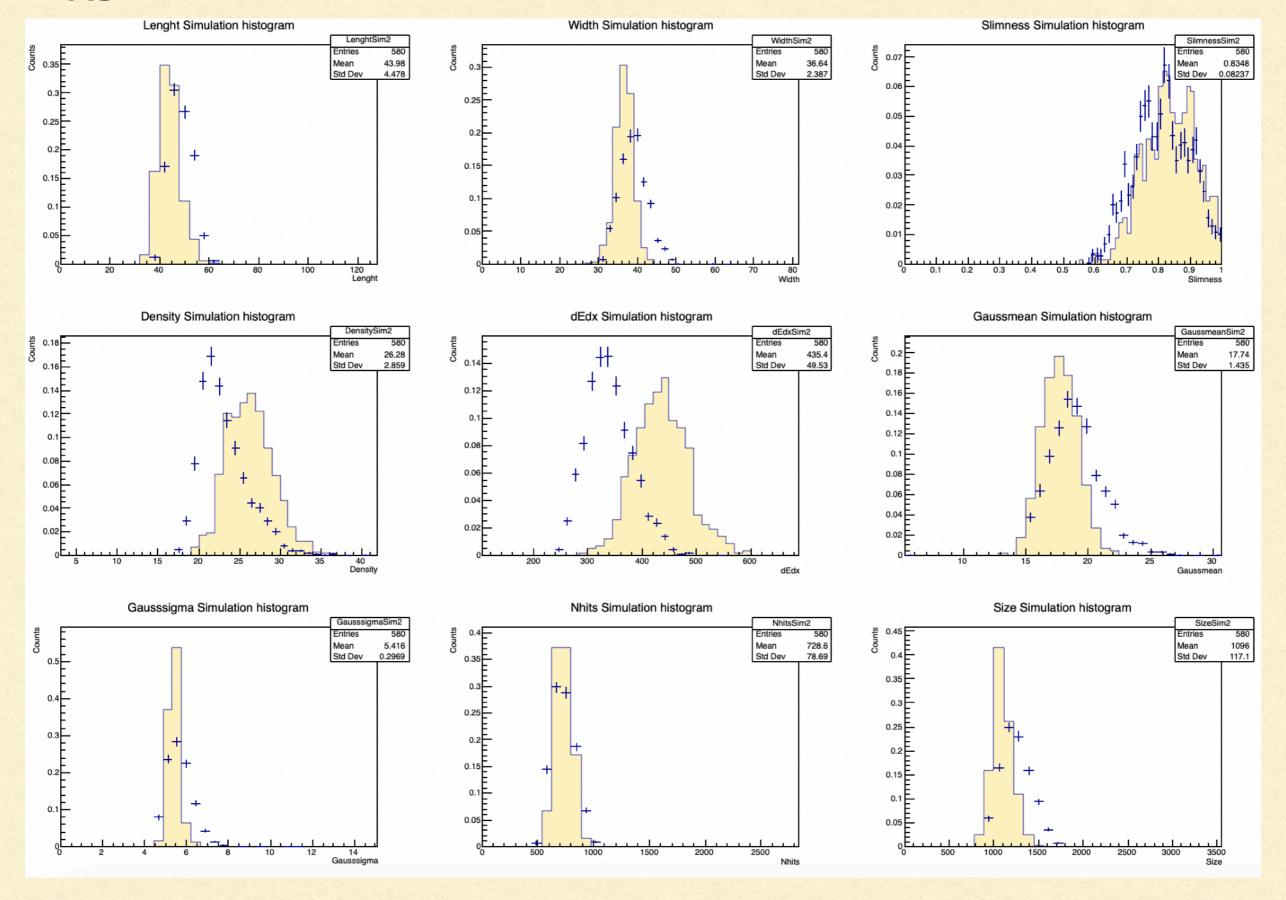
Tracks redigitized have been compared with the latest results obtained from data with sPlot.

```
#'diff_const_sigma0T' : 0.0784,  # diffusion constant [mm]^2 - Original
#'diff_coeff_T' : 0.01232,  # diffusion parameter [mm/sqrt(cm)]^2 for 1 kV - Original

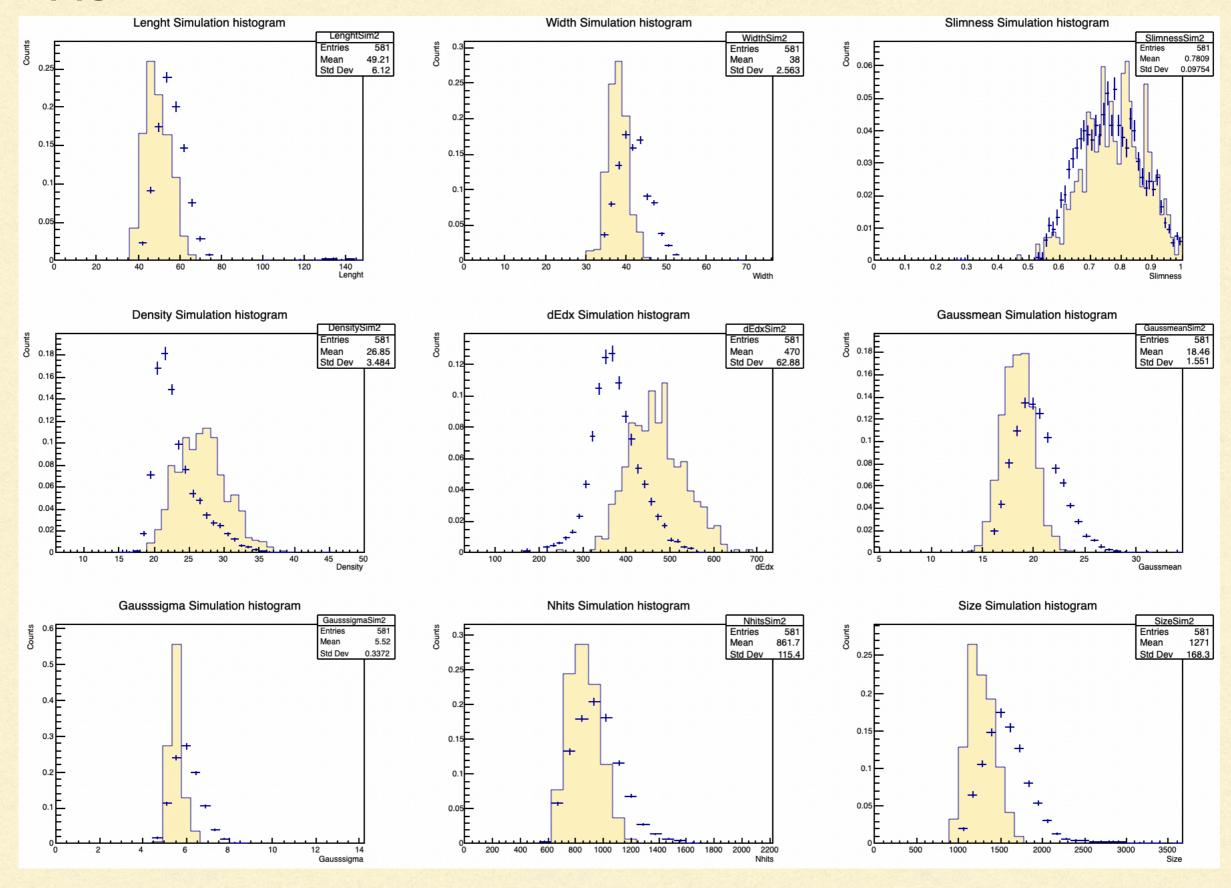
'diff_const_sigma0T' : 0.266,  # diffusion constant [mm]^2
'diff_coeff_T' : 0.01392,  # diffusion parameter [mm/sqrt(cm)]^2 for 1 kV
```



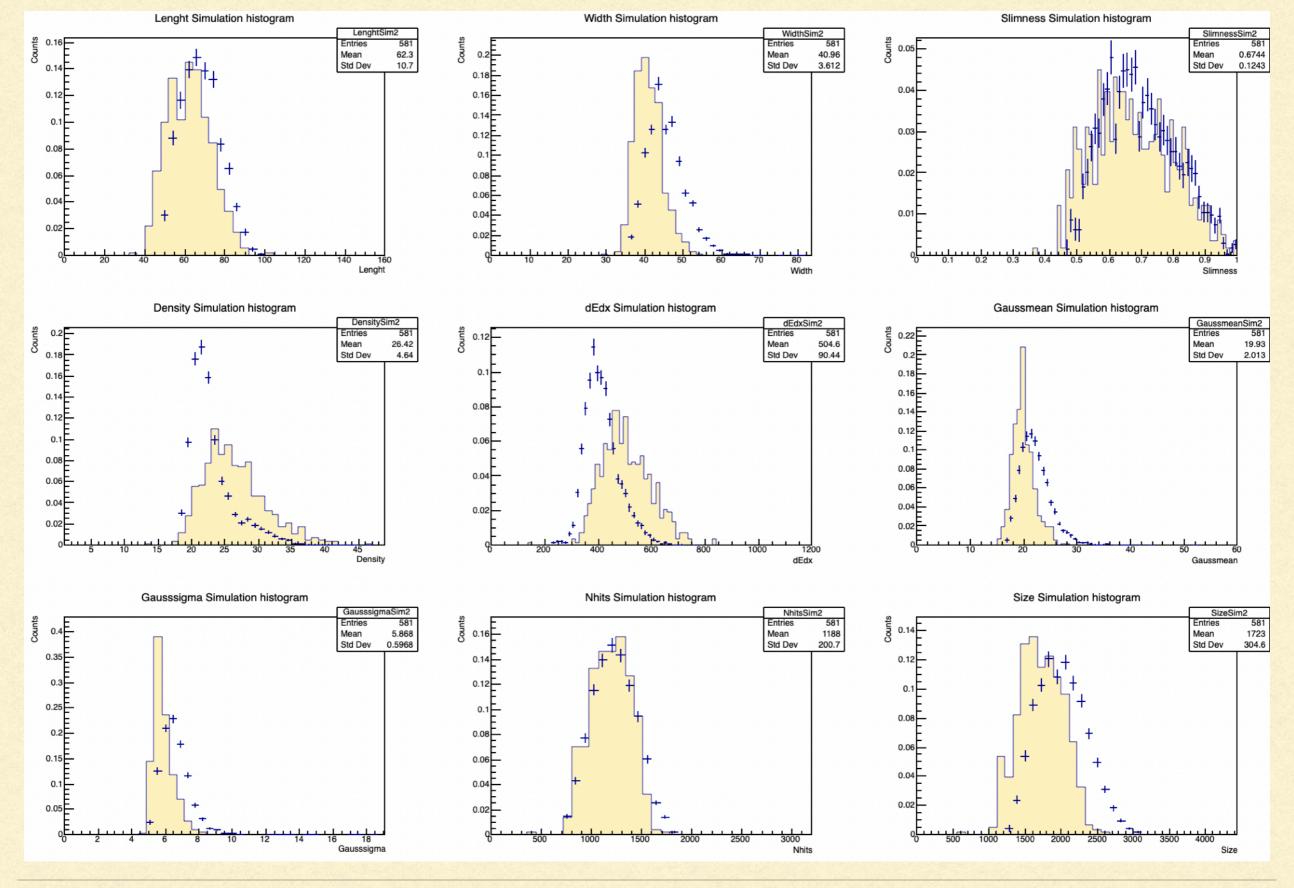
Rb



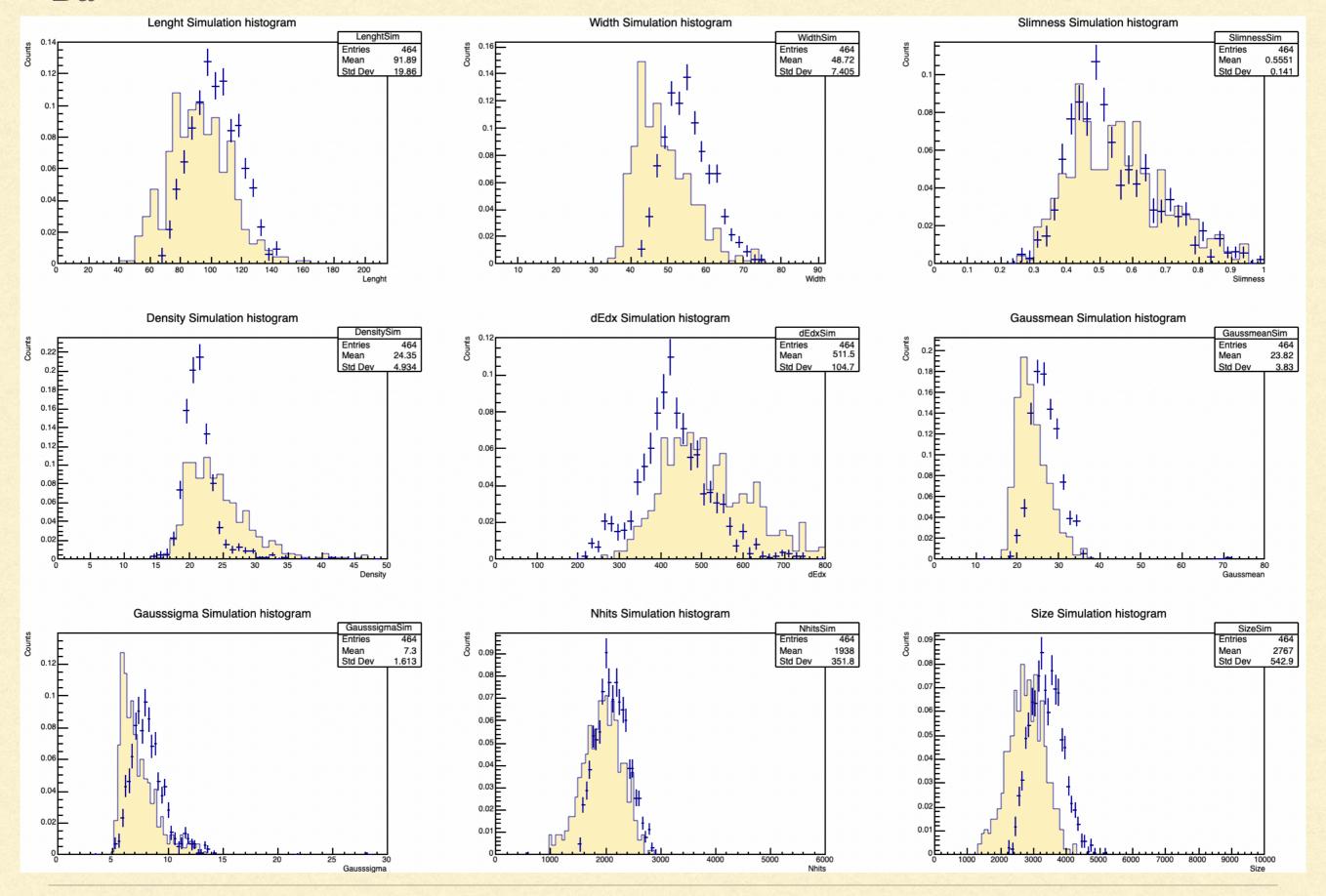
Mo



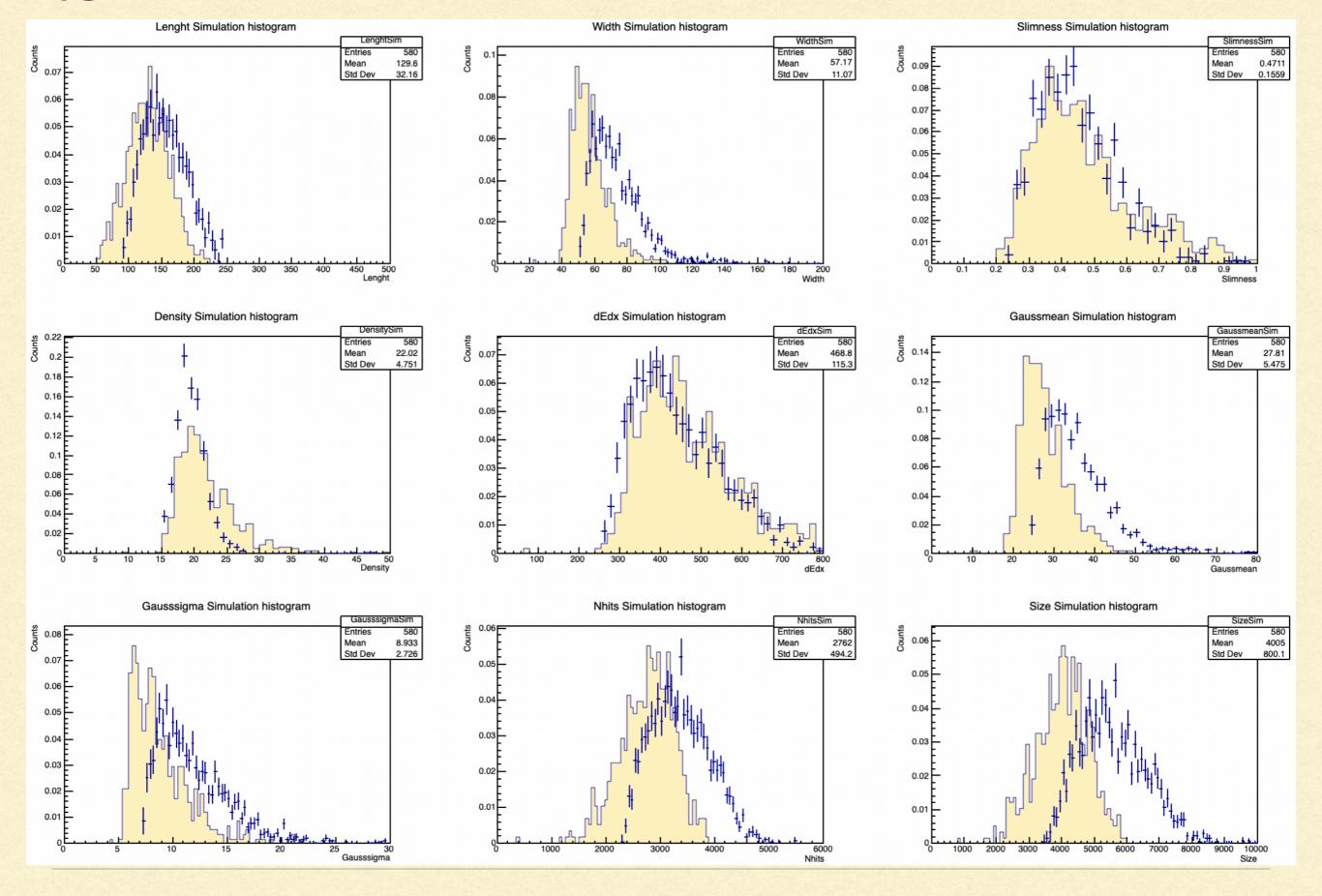
Ag



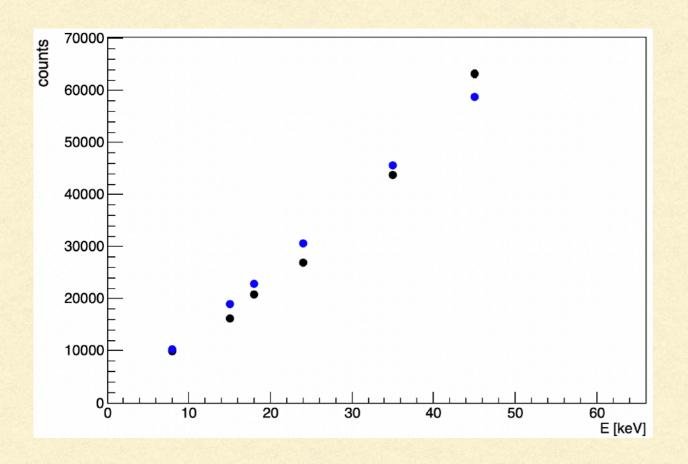
Ba

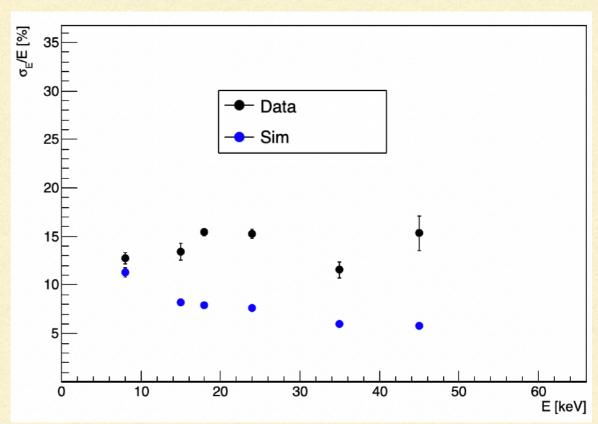


Tb



Linearity and Energy resolution

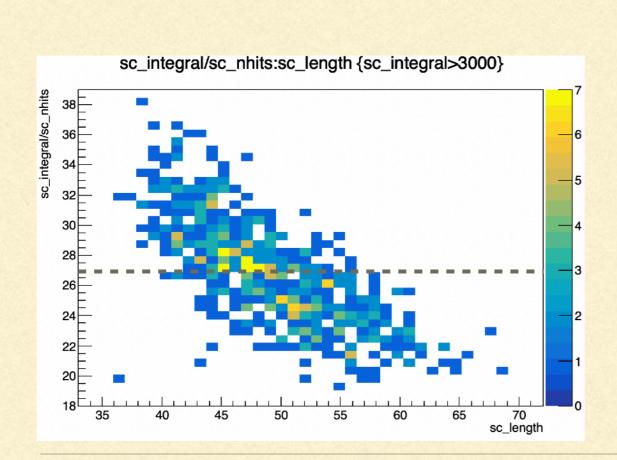


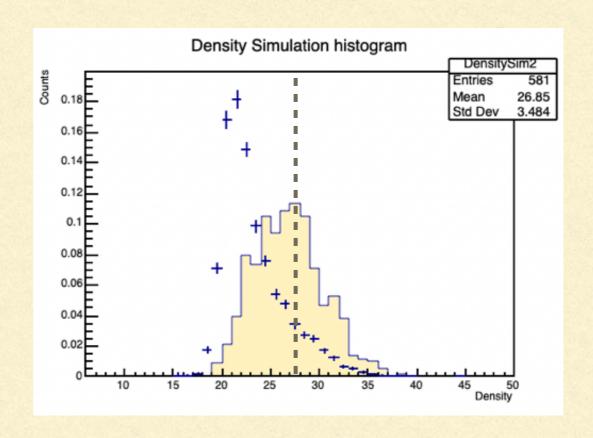


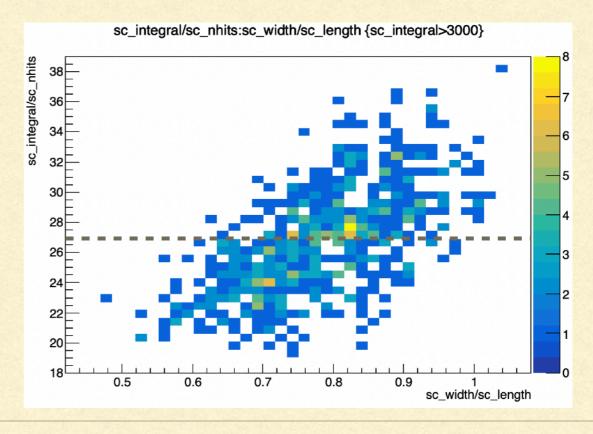
Linearity and EReso essentially unchanged

Identification of high density events

 Not a clear identification of events with higher density in the simulation







Plans for the future

- It seems that we reached a good point in therm of data-mc comparison
- A last comparison can be done by studying better the data with the sPlot

- The hight statistic sample can be produced to Study again the directionality
 - (Last results on directionality were with a factor ~4 less light)

 With the new results on directionality I can start to study the solar neutrino case