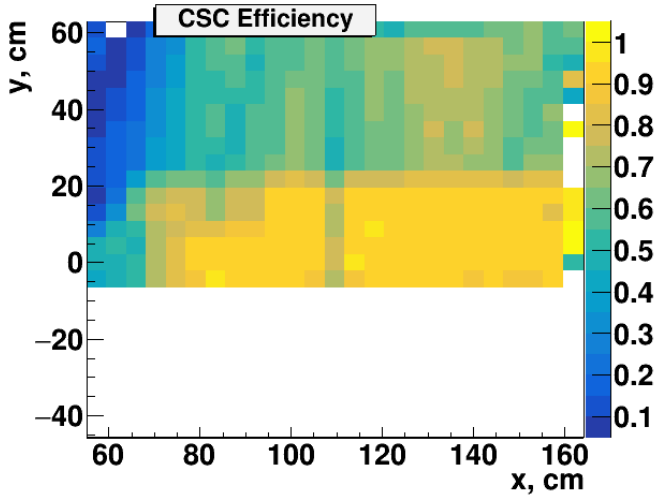
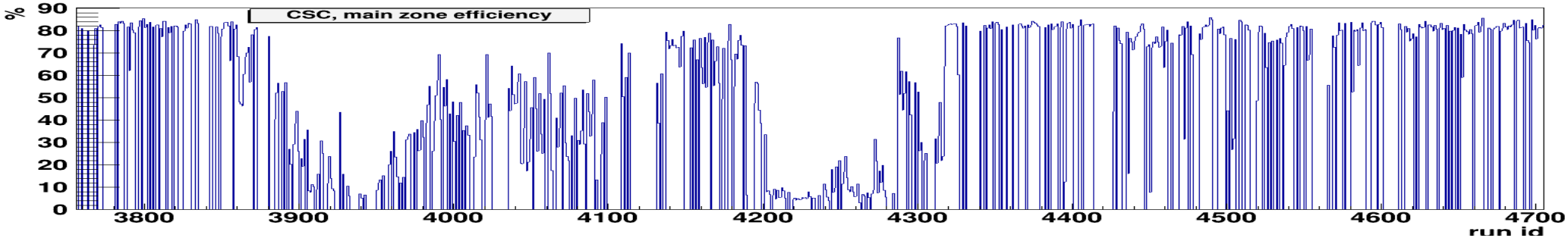
CSC efficiency

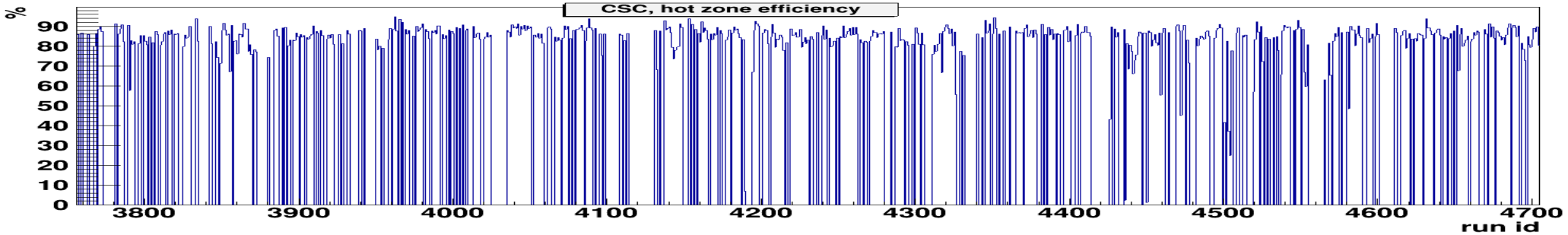
- Efficiencies of CSC (recap)
- Data CSC efficiency comparison with new results
- Results of identification after Si/GEM/CSC signals normalization
- MC CSC efficiency
- Normalized CSC efficiency
- The next step

Efficiencies of CSC (from 4th Collaboration Meeting)



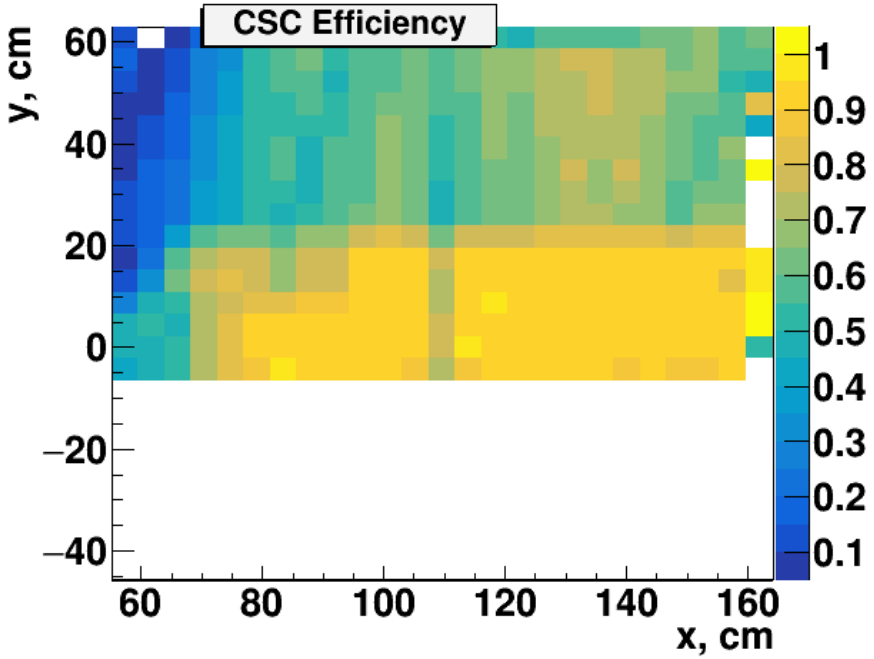
- Low efficiency at low x, large y
- There are deep drops of efficiency by runs in the main zone
- Hot zone efficiency is pretty stable

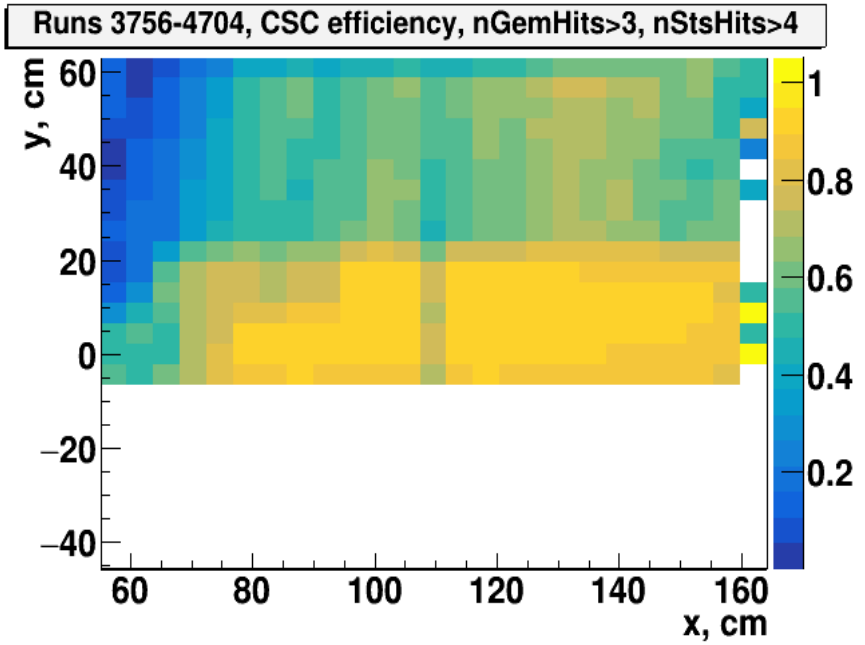




Data CSC efficiency comparison with new results

GEM tracking





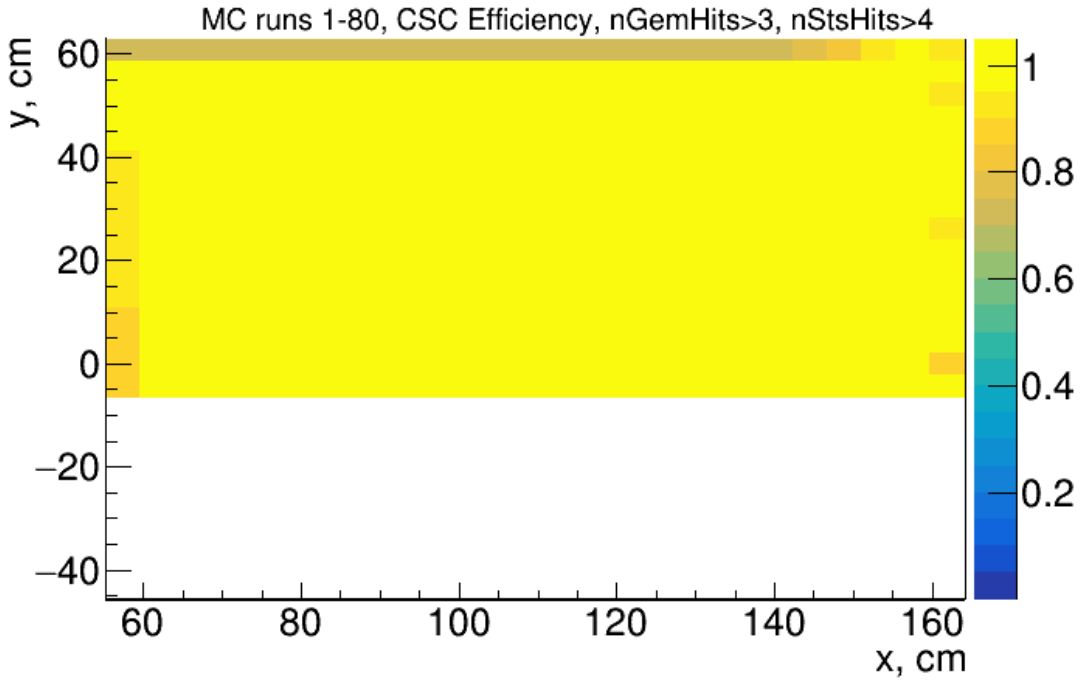
Si/GEM extend tracking

- CSC efficiency from new result slightly less

Results of identification after Si/GEM/CSC signals normalization

- Signals normalization made by Lalyo
- Adc spectra even for all digits Si/GEM/CSC looks similar (by station)
- Numbers of identified π^+ and K^+ are the same as without signals normalization with accuracy 0.5%
- P, Y, Pt spectra of π^+ and K^+ looks the same as without signals normalization

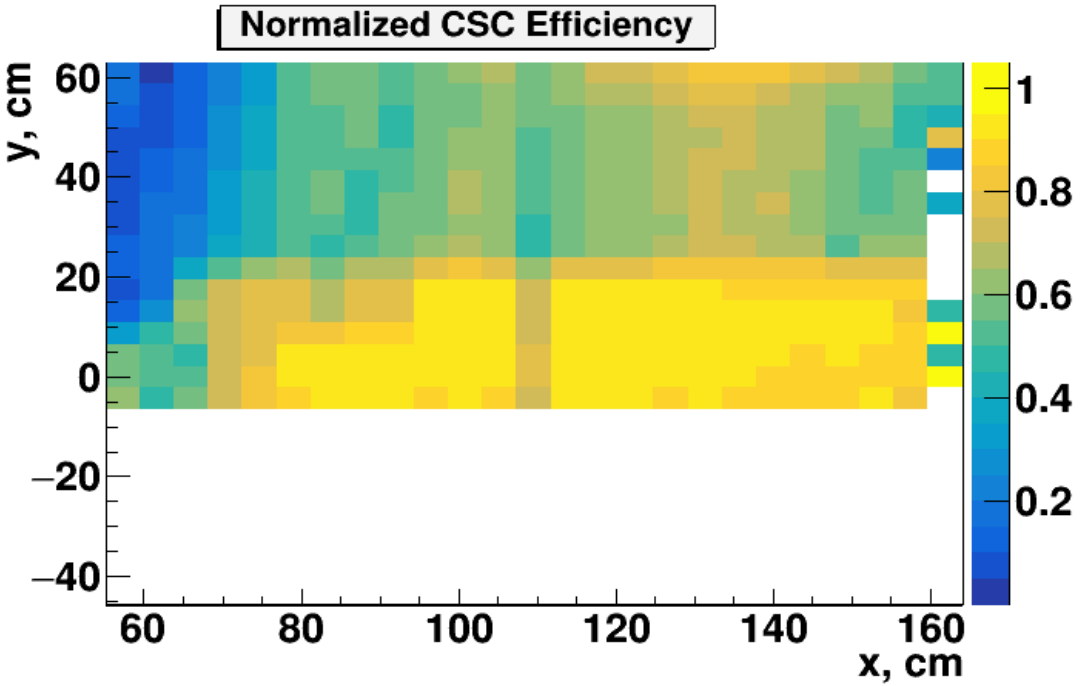
MC CSC efficiency



- CSC efficiency calculated using MC version with Si/GEM/CSC signals normalization

- Almost entire CSC area has MC efficiency >95%

Normalized CSC efficiency



$$Eff_{CSC_norm} = Eff_{CSC_Data}/Eff_{CSC_MC}$$

- $Eff_{CSC_norm} \approx Eff_{CSC_Data}$

The next step

- To calculate TOF400 efficiency