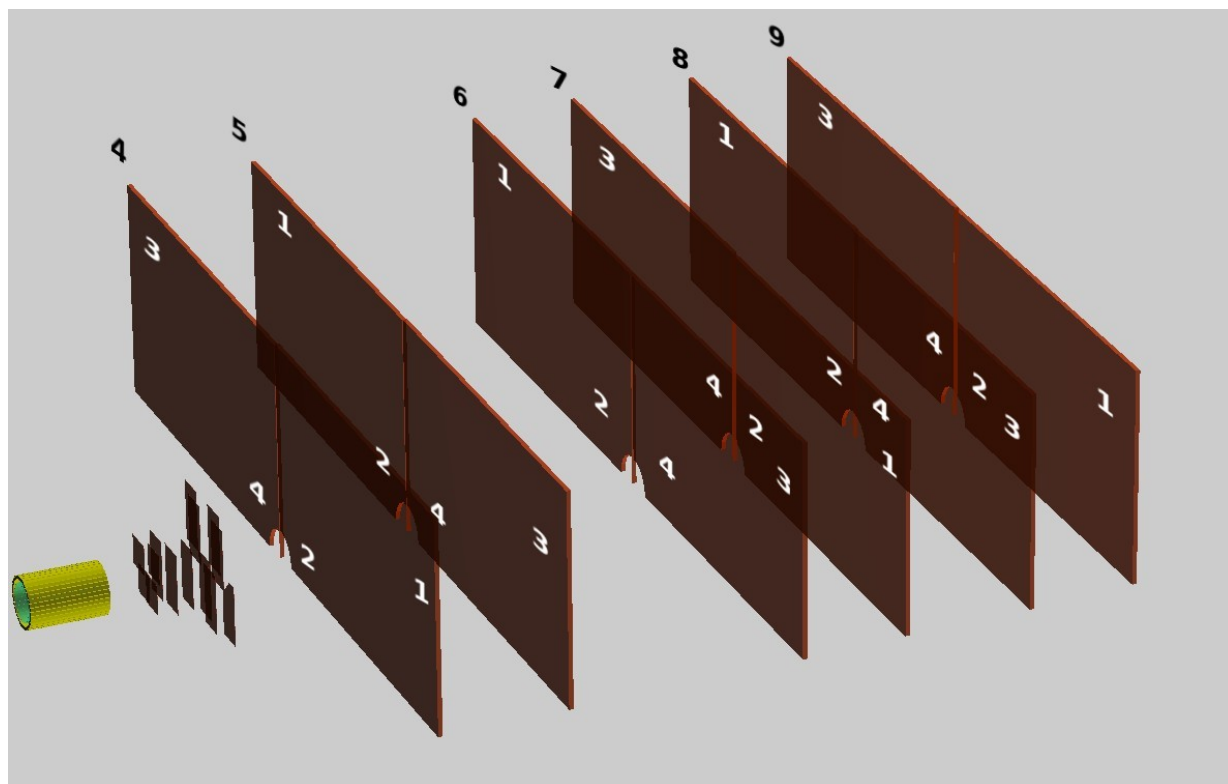


QA of embedding

- StsPoints to StsHits conversion efficiency
- CscPoints to StsHits conversion efficiency
- How to make a map between experimental and MC events?

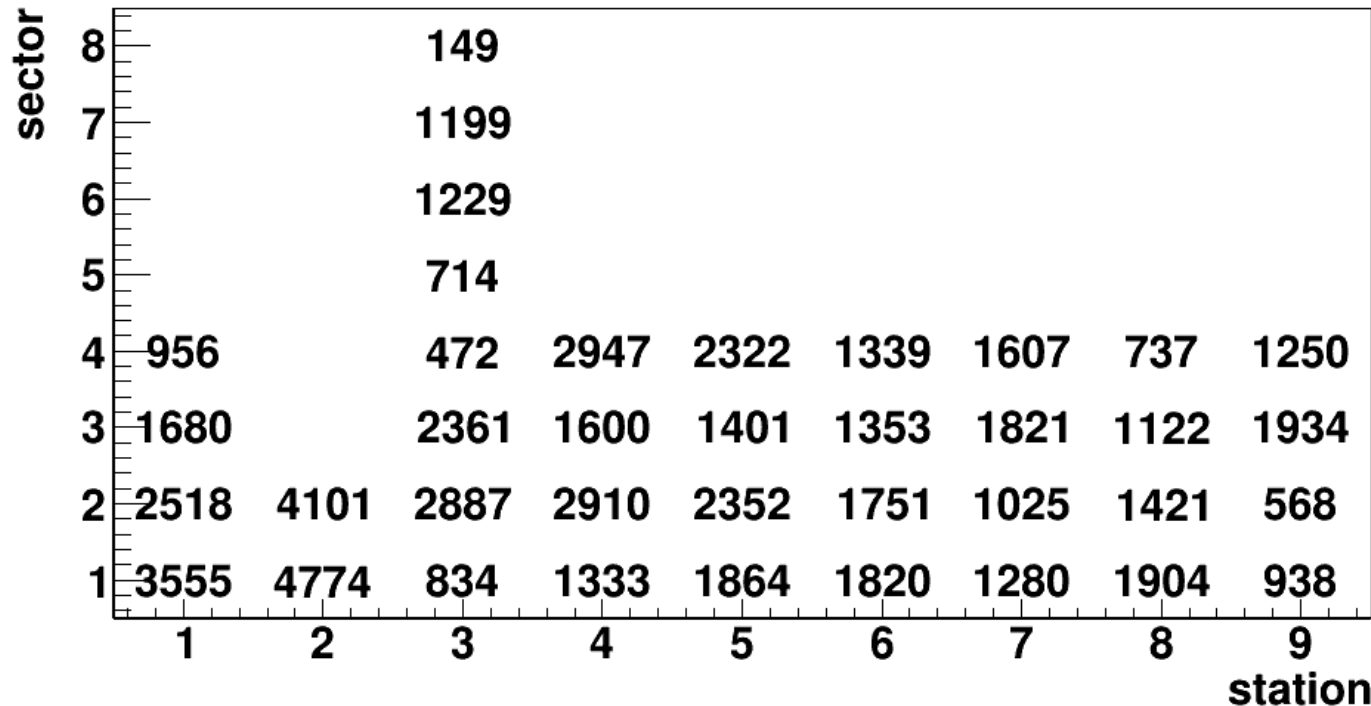
StsPoints to StsHits conversion efficiency



- Stations 1-3 are Si
- Stations 4-9 are GEM
- Even sectors of GEM are hot zones
- Odd sectors of GEM are main zones

StsPoints to StsHits conversion efficiency

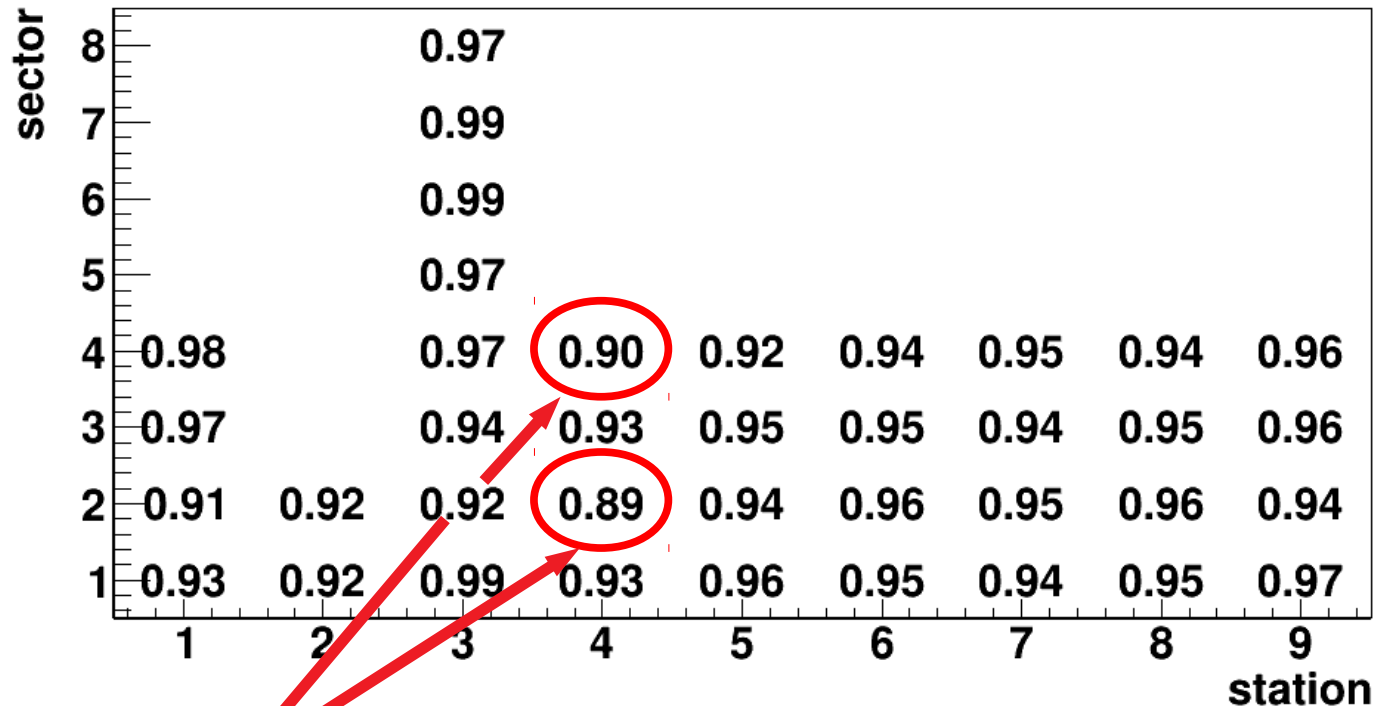
MC points embedding denominator by station by sector



- The number of MC Points to be converted
- Using only points which give digits in the strips
- Enough statistics in the each sector

StsPoints to StsHits conversion efficiency

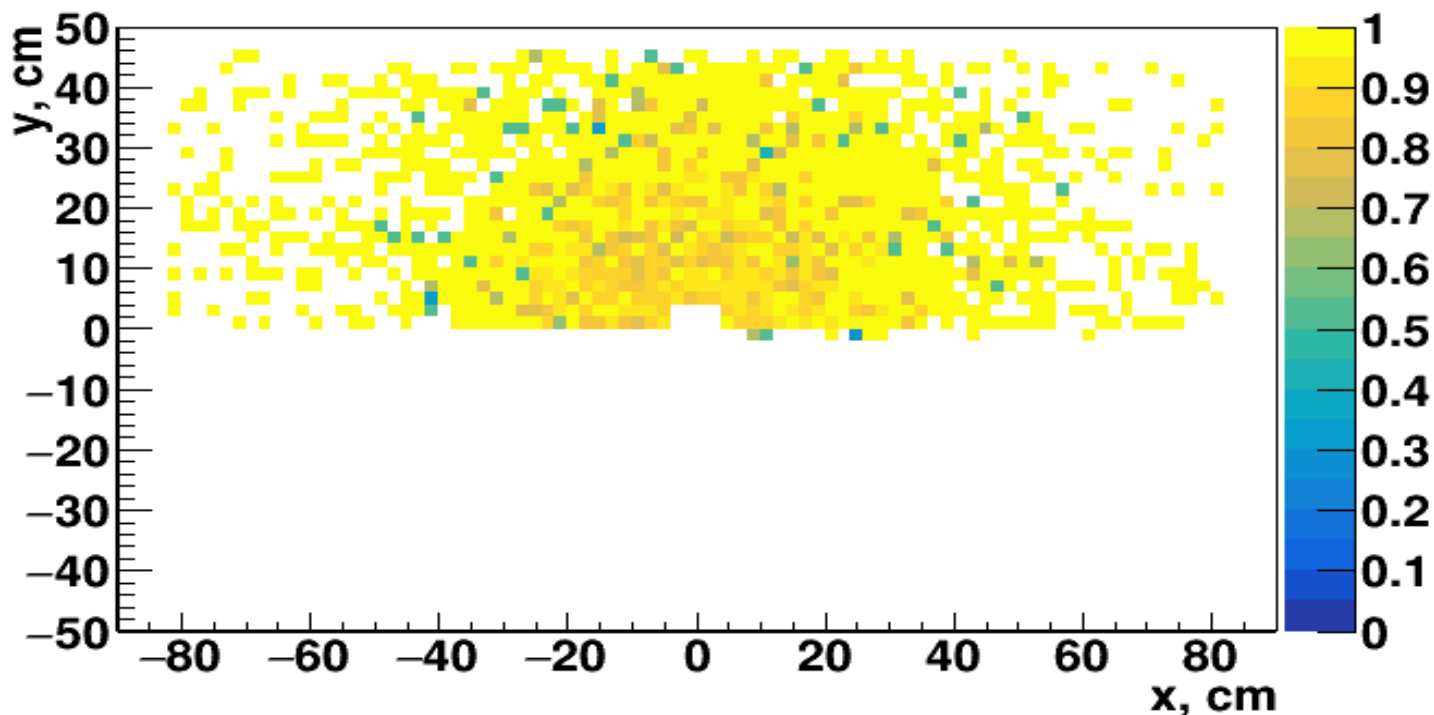
MC points embedding efficiency by station by sector



- The lowest efficiency for hot zones of GEM1
- Possibly due to the largest MC Points density according to the pitch size

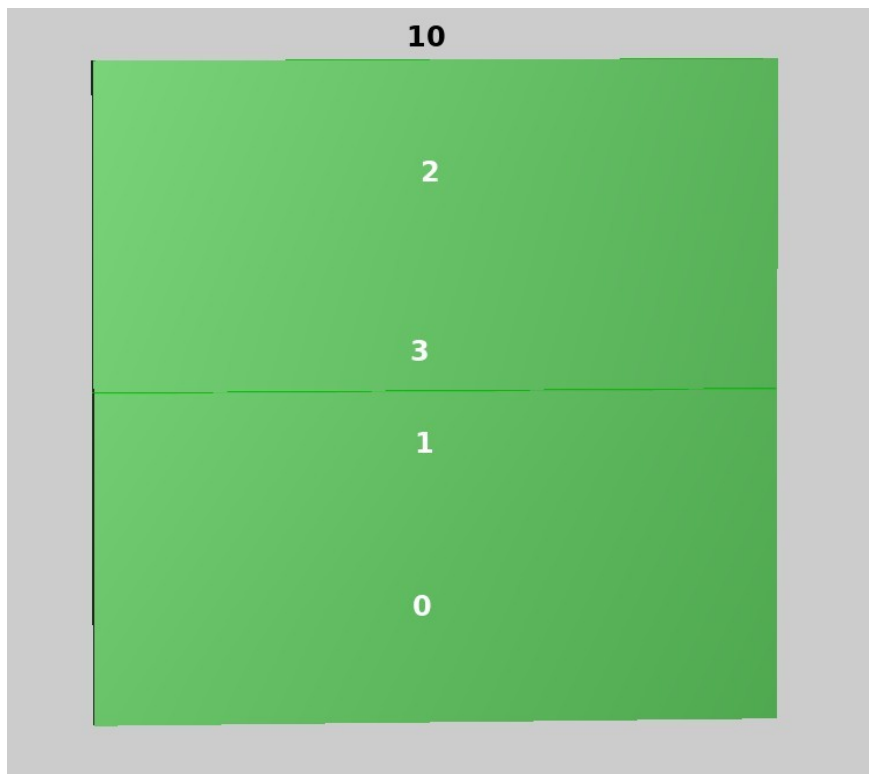
StsPoints to StsHits conversion efficiency

MC points embedding efficiency for station GEM1

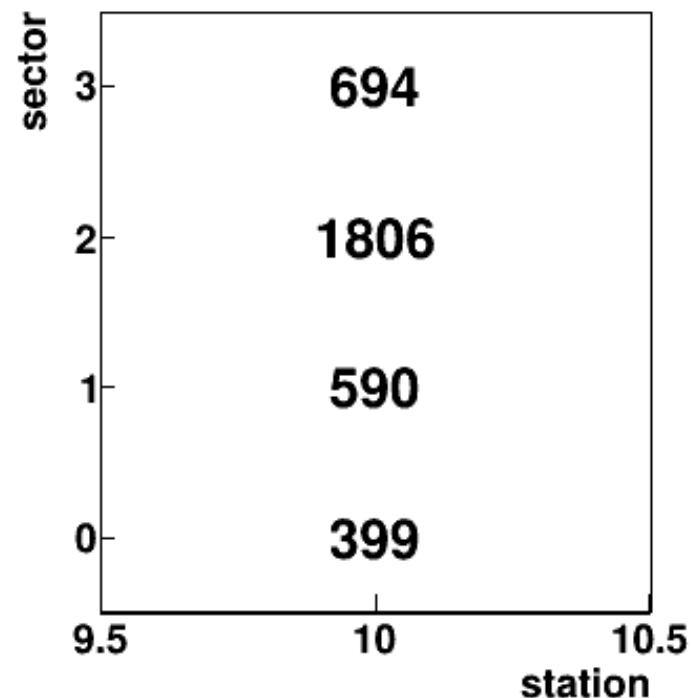


- The same efficiency for **GEM1** using net of squares with the side length **2cm**
- No special regions are visible
- Efficiency rises with the distance from the station center

CscPoints to StsHits conversion efficiency



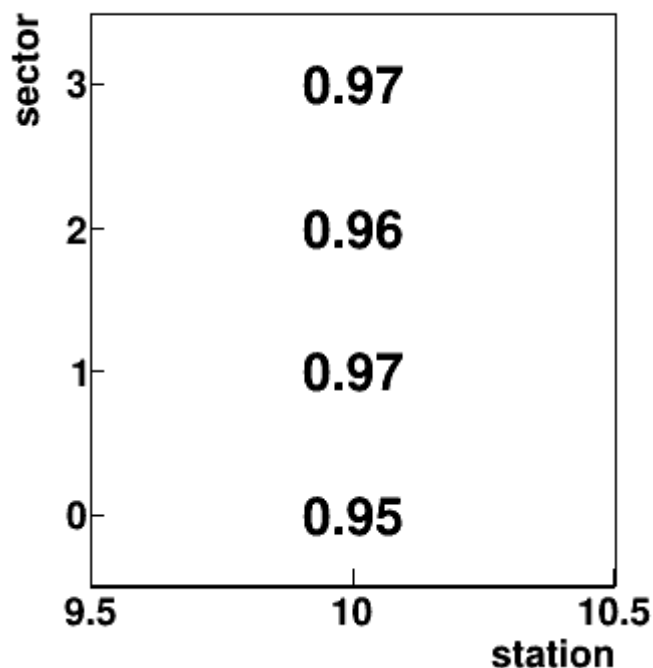
MC points embedding denominator by station by sector



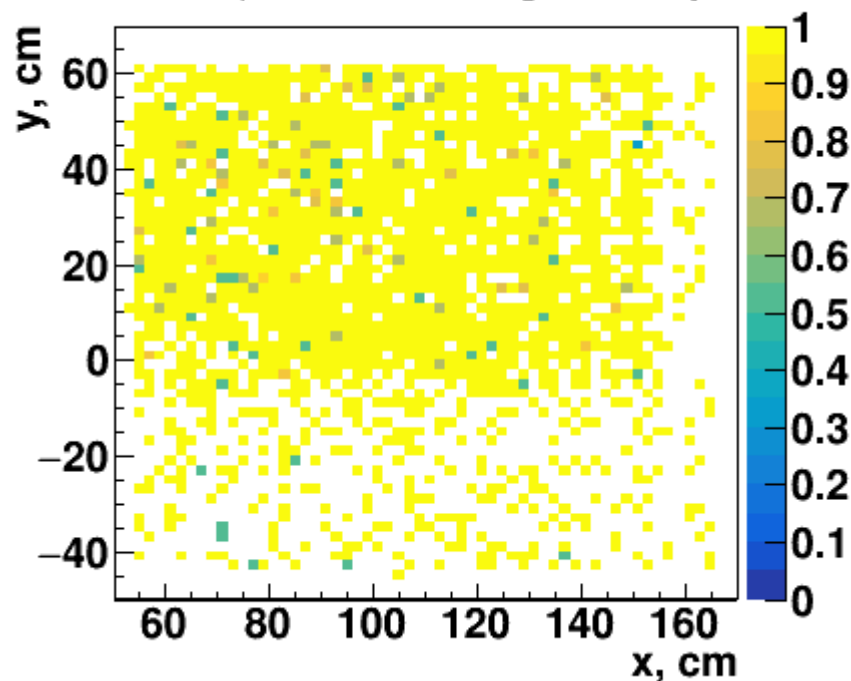
- The number of CSC Points to be converted
- Using only points which give digits in the strips
- Enough statistics in the each sector

CscPoints to StsHits conversion efficiency

CSC points embedding efficiency by station by sector



CSC points embedding efficiency



- Large and uniform conversion efficiency in all CSC sectors

How to make a map between experimental and MC events?

- For run 4649 we have ~6.5K PV
- For MC run we have 50K generated events
- Now we make a loop over exp PV for all MC events
- Does event have reconstructable π^+ depends on PV (**physical issue**)
- About 20% reconstructed π^+ now have use the same PV (**technical issue**)