

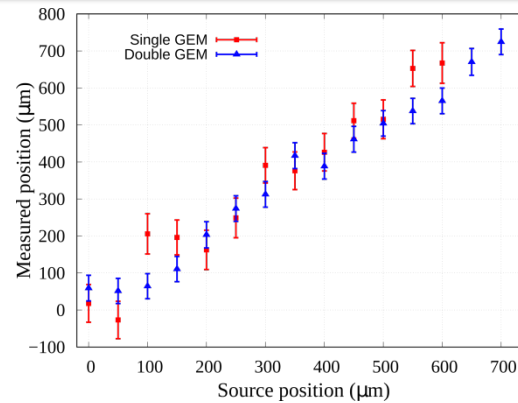
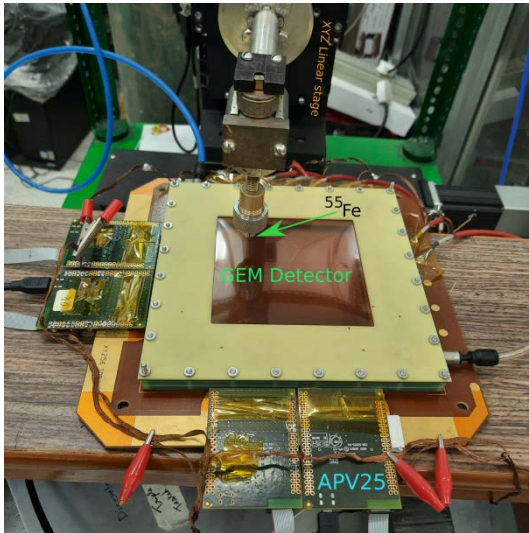


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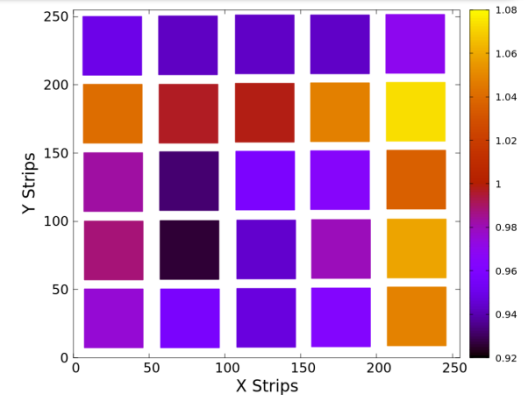
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# Studies on position resolution & gain mapping of Gas Electron Multipliers (GEM) using Scalable Readout System (SRS)



Position data is plotted by moving the source 50  $\mu\text{m}$  at a time.



Gain map of a double GEM

- ❑ Data acquisition with APV25 & SRS based DAQ system.
- ❑ Position resolution measurement by changing source position with a precise positioning system.
- ❑ Gain uniformity scan of 10 by 10 cm GEM detector.

- In the x-direction, the measured position resolution of single and double GEM are 66.47 and 36.76  $\mu\text{m}$ , respectively.
- The detector's gain variation is  $\pm 8\%$  from its mean value.