

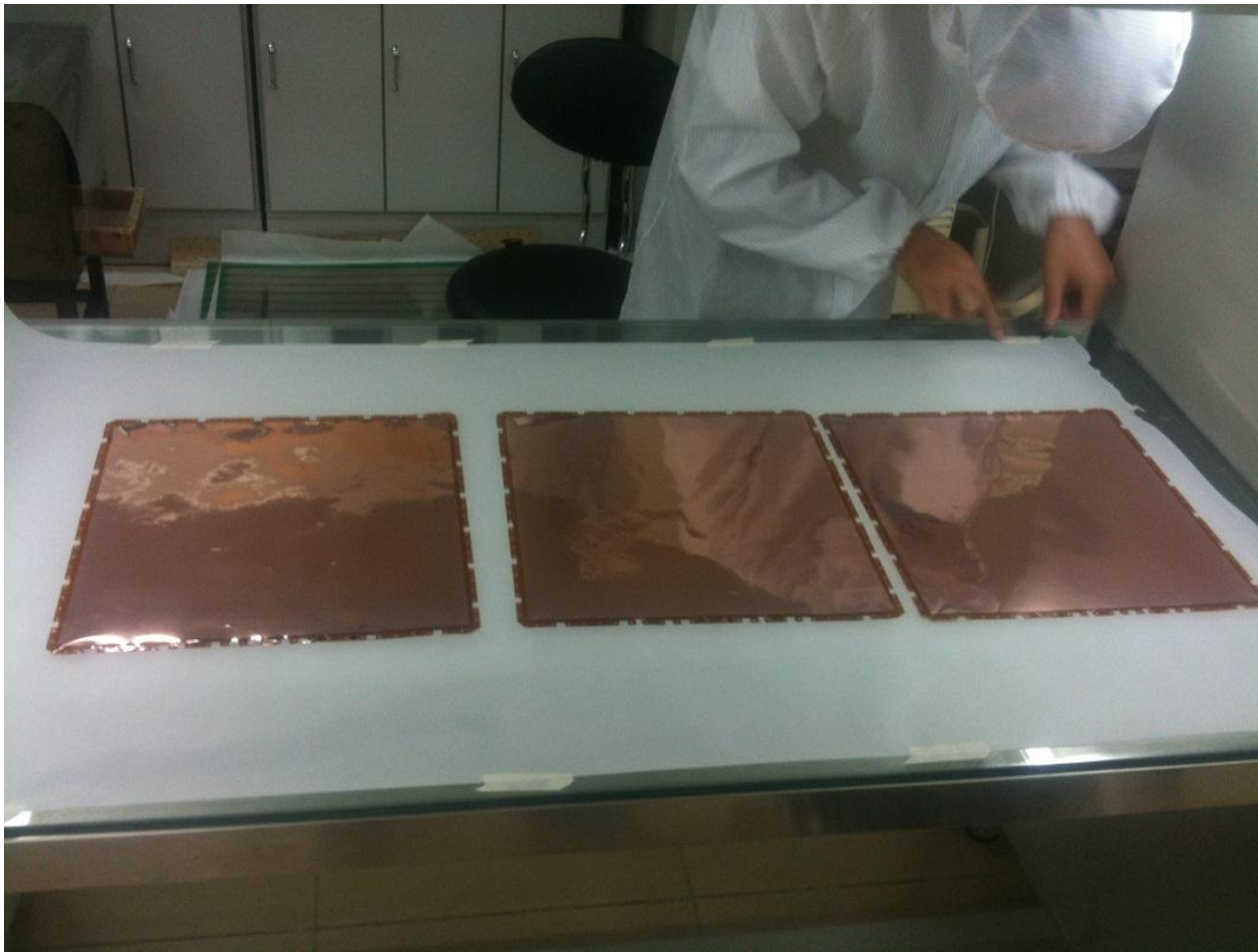
First test of the 30cmX30cm GEM

Yi Zhou

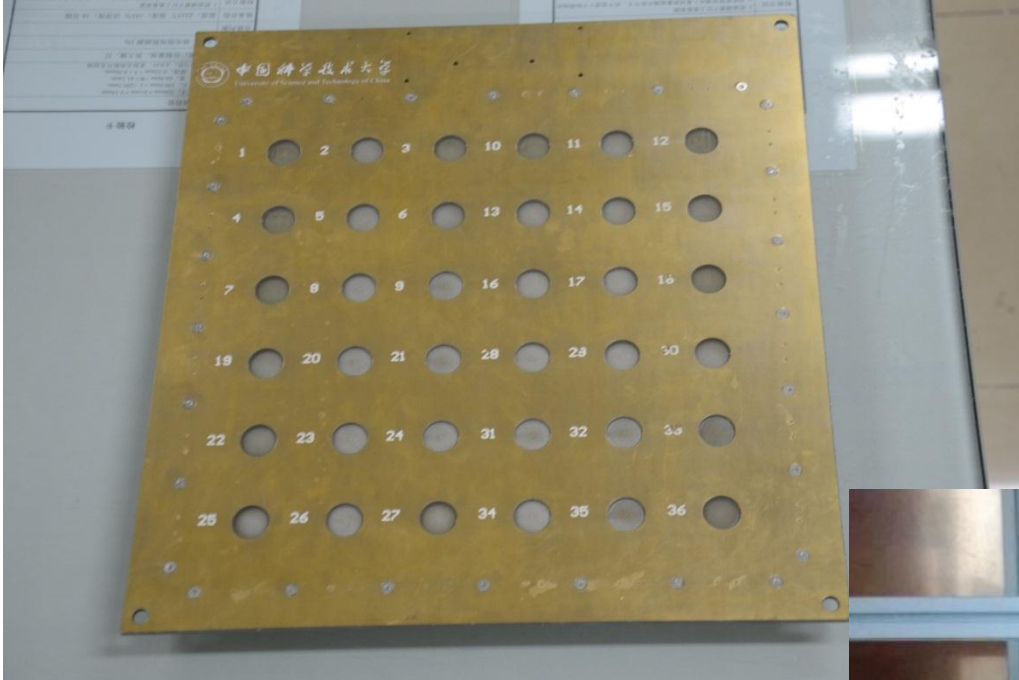
Wenhao You

Problem & Solution

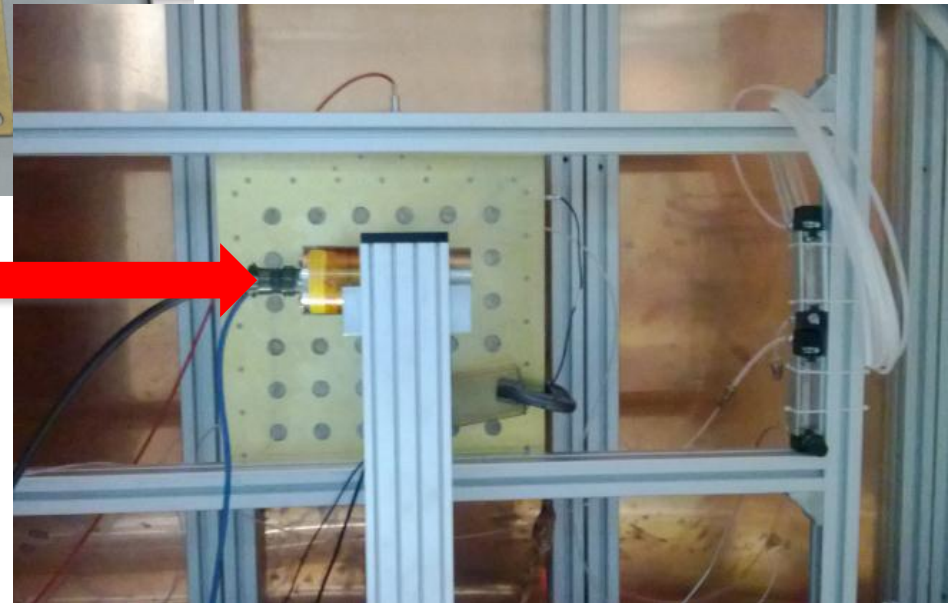
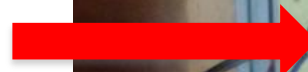
- **GEM foil 1, Segment3 short, we opened and disassembled the detector, then cured the short segment.**



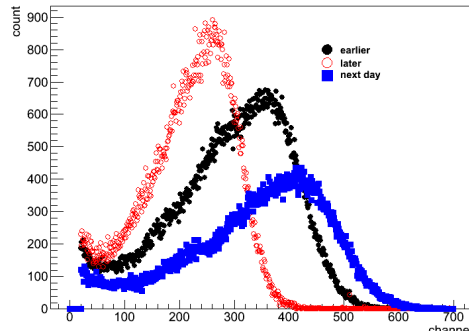
First test of the 30cmX30cm GEM



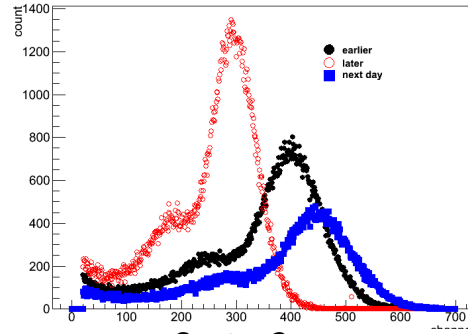
Cu X-ray: 8KeV



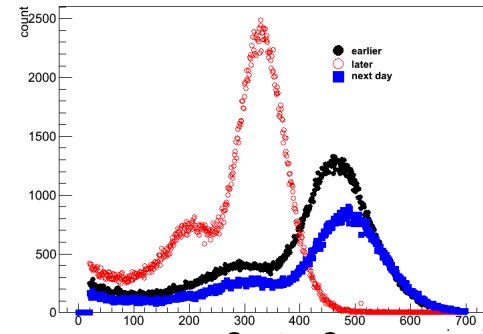
Energy Spectrum



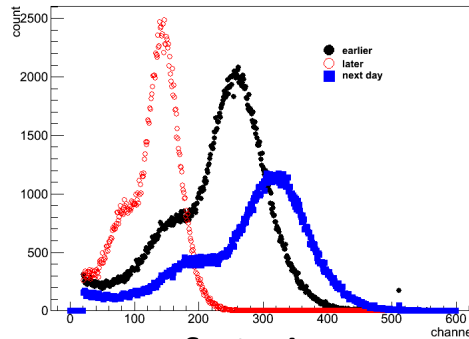
Sector1



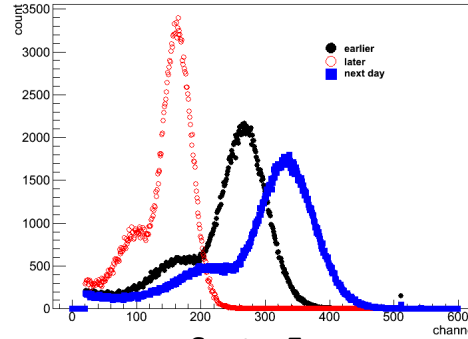
Sector2



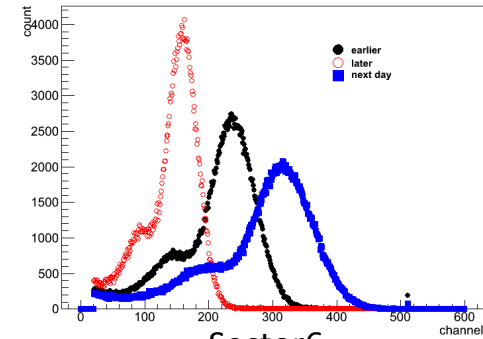
Sector3



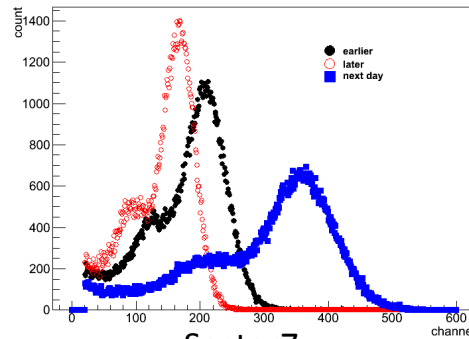
Sector4



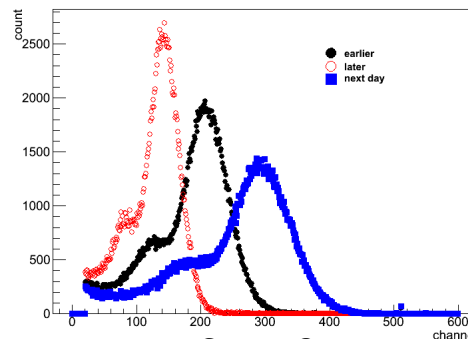
Sector5



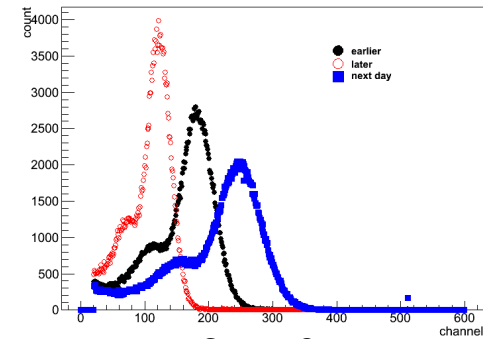
Sector6



Sector7

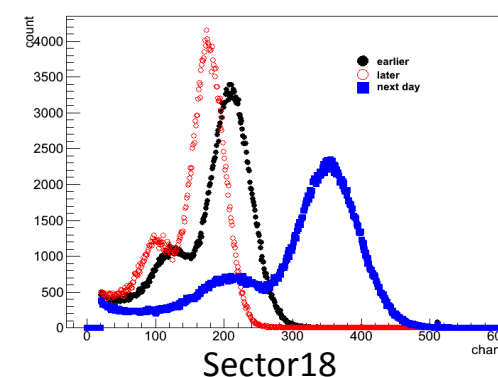
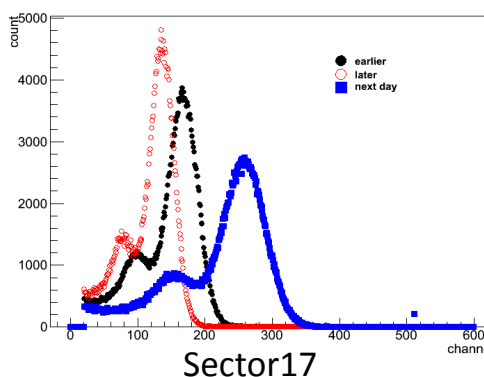
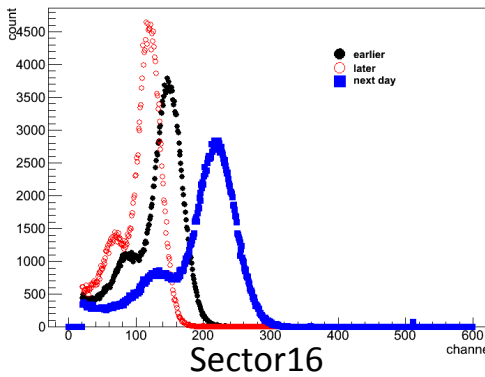
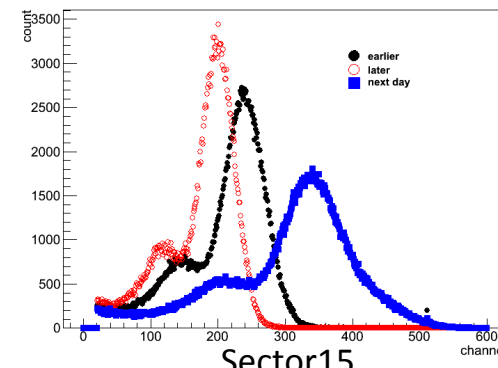
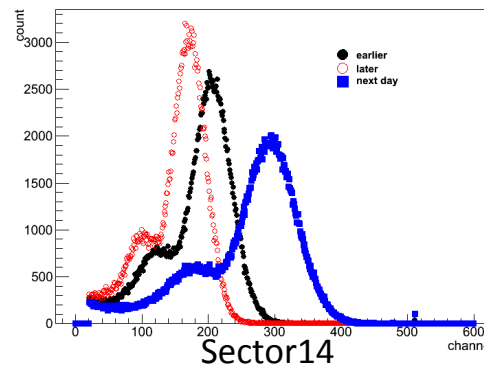
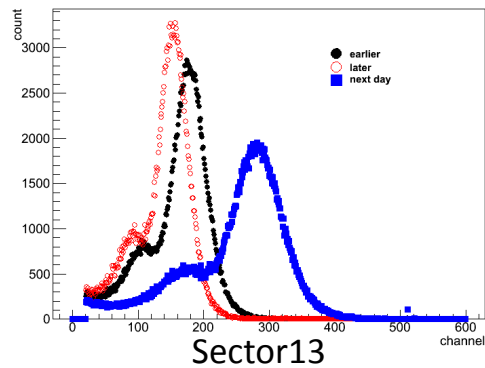
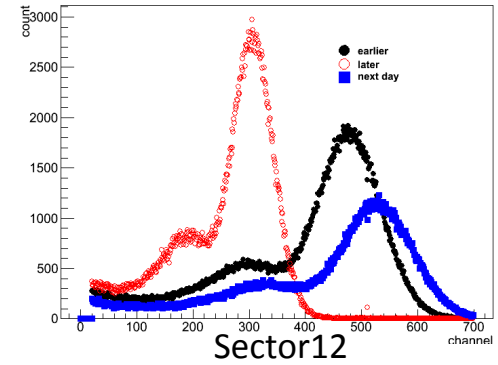
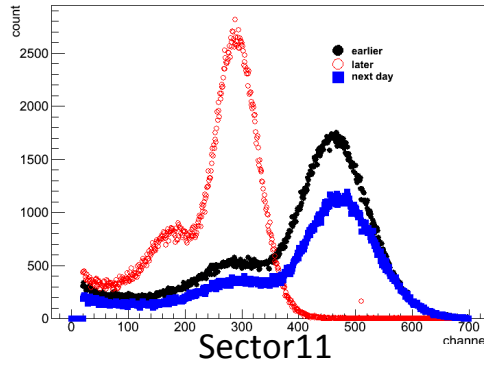
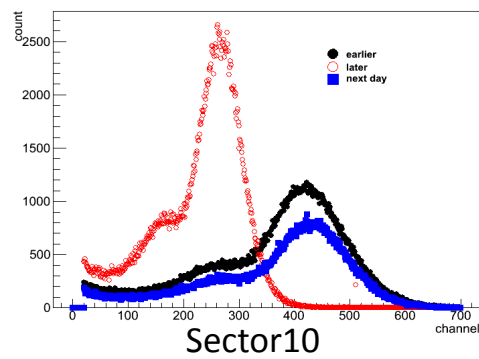


Sector8

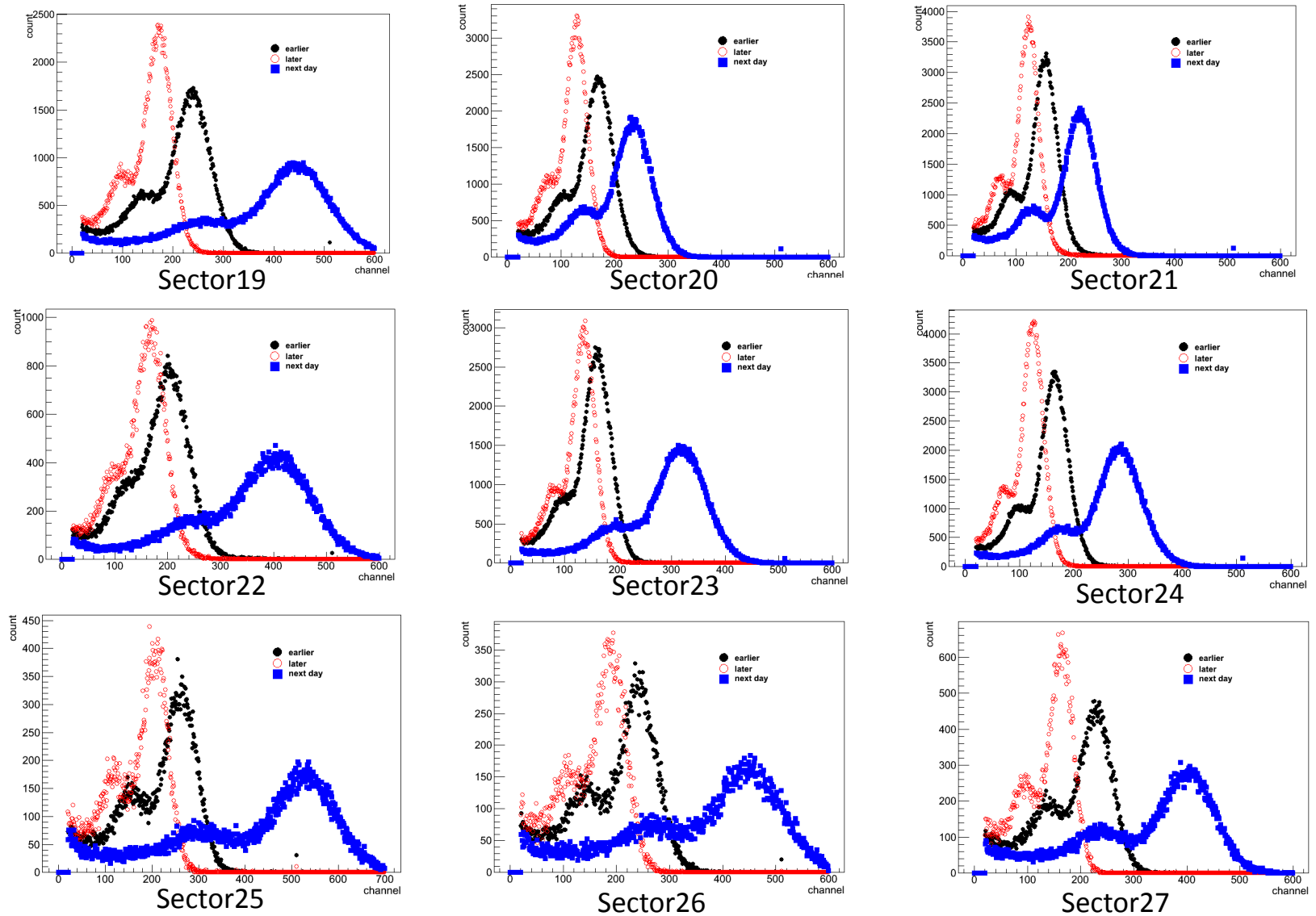


Sector9

Energy Spectrum

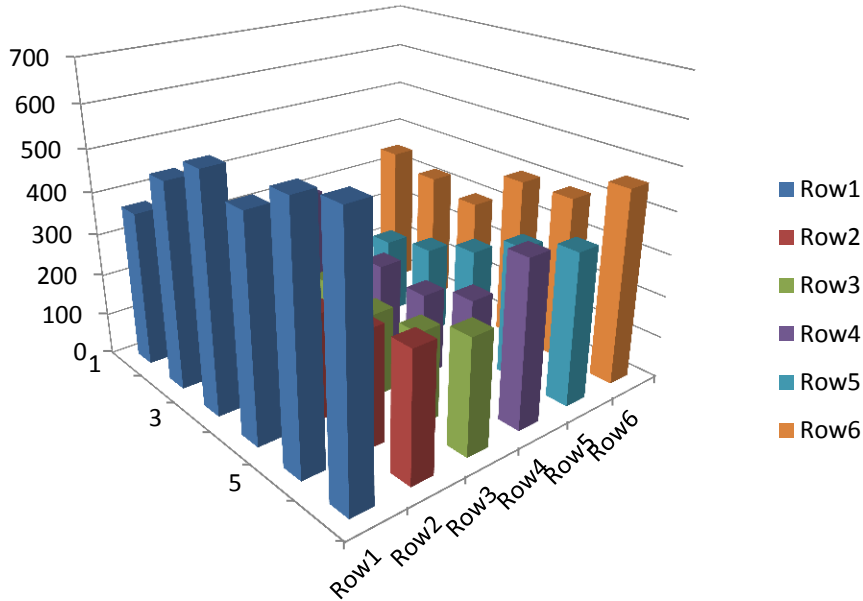


Energy Spectrum

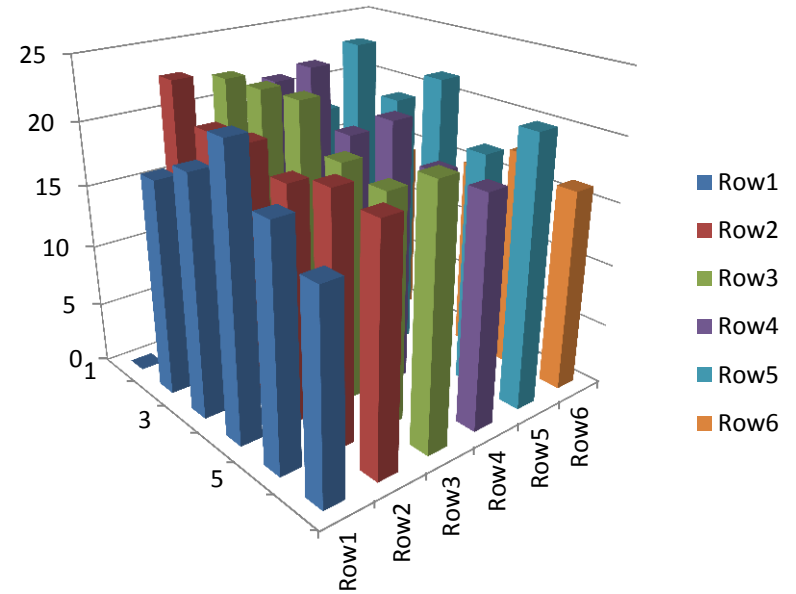


Uniformity

Gain



Energy resolution

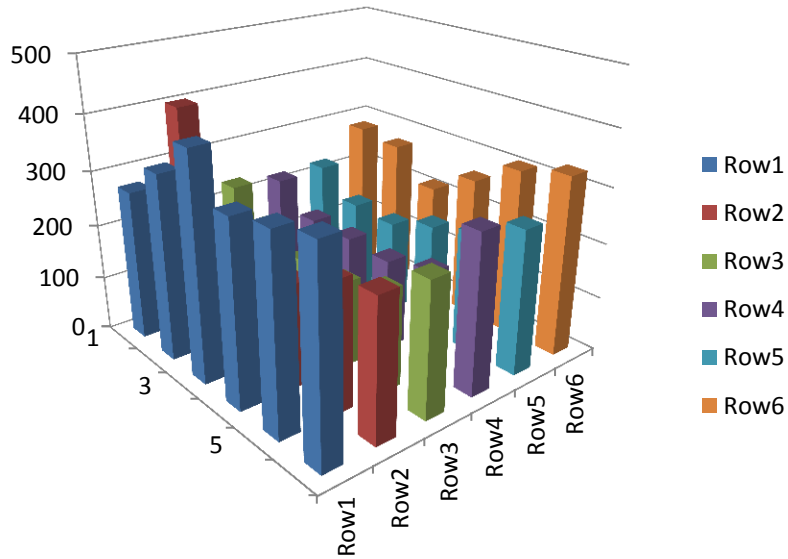


1st Test, 1st Day

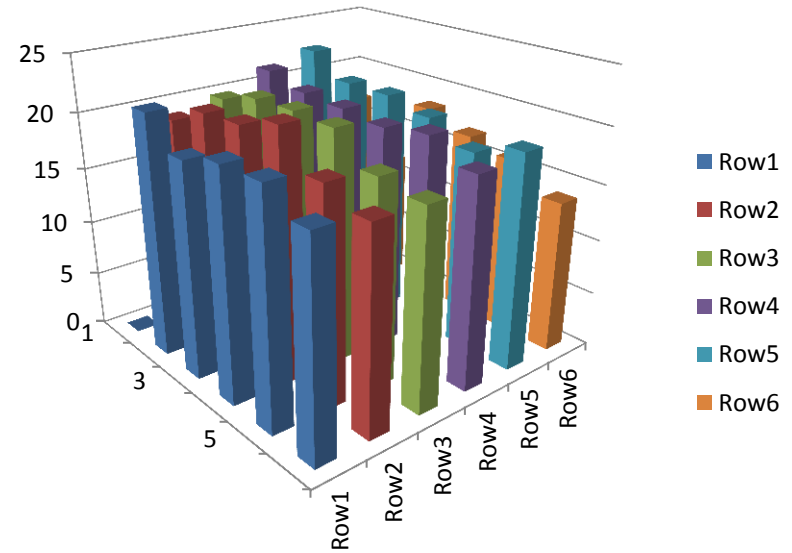
(Temperature: 26.8 °C; Humidity: 59%)

Uniformity

Gain



Energy resolution

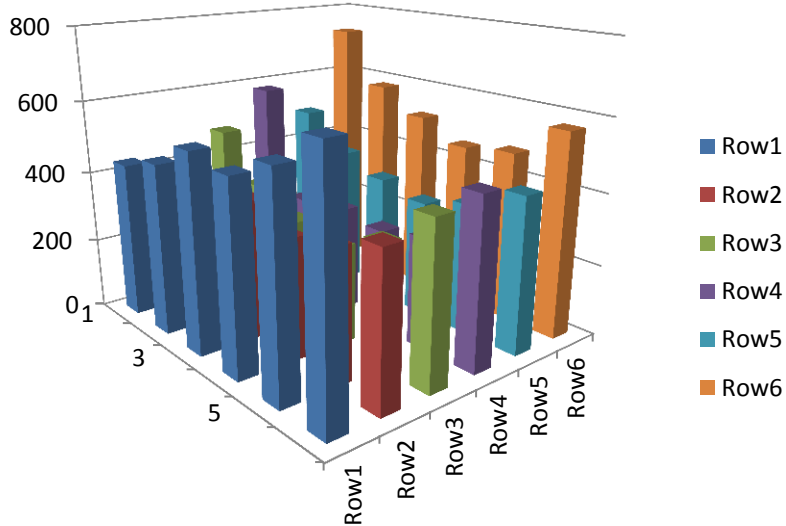


2nd Test, 1st Day

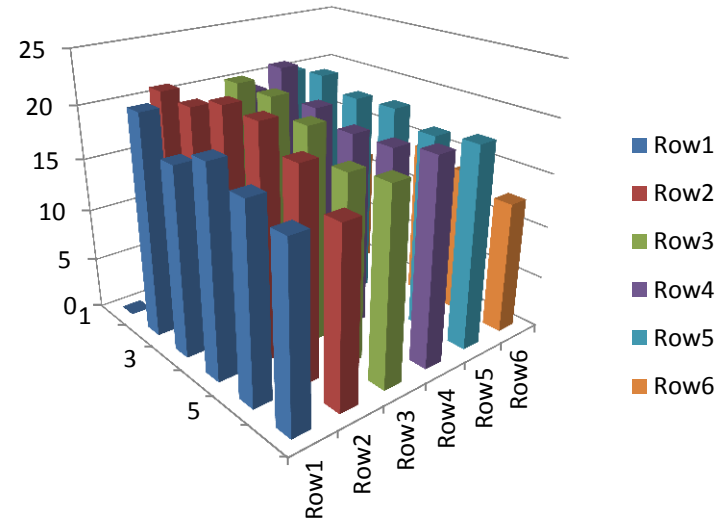
(Temperature: 26.8 °C; Humidity: 59%)

Uniformity

Gain



Energy resolution



1st Test, 2nd Day

(Temperature: 26.7 °C; Humidity: 56%)