The EXL Silicon Recoil Detector

Yu. Zalite, A. Zalite

EXL Setup

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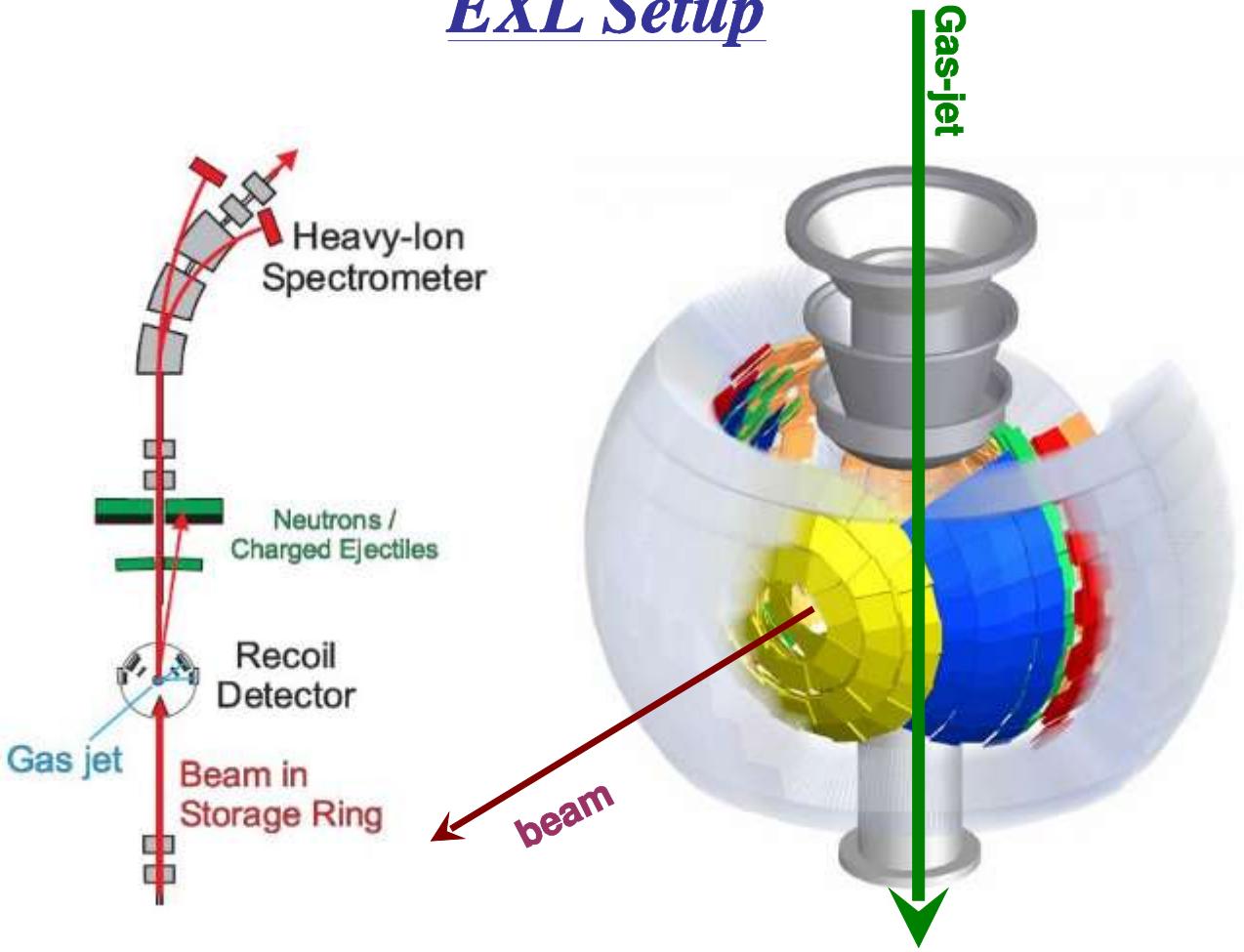
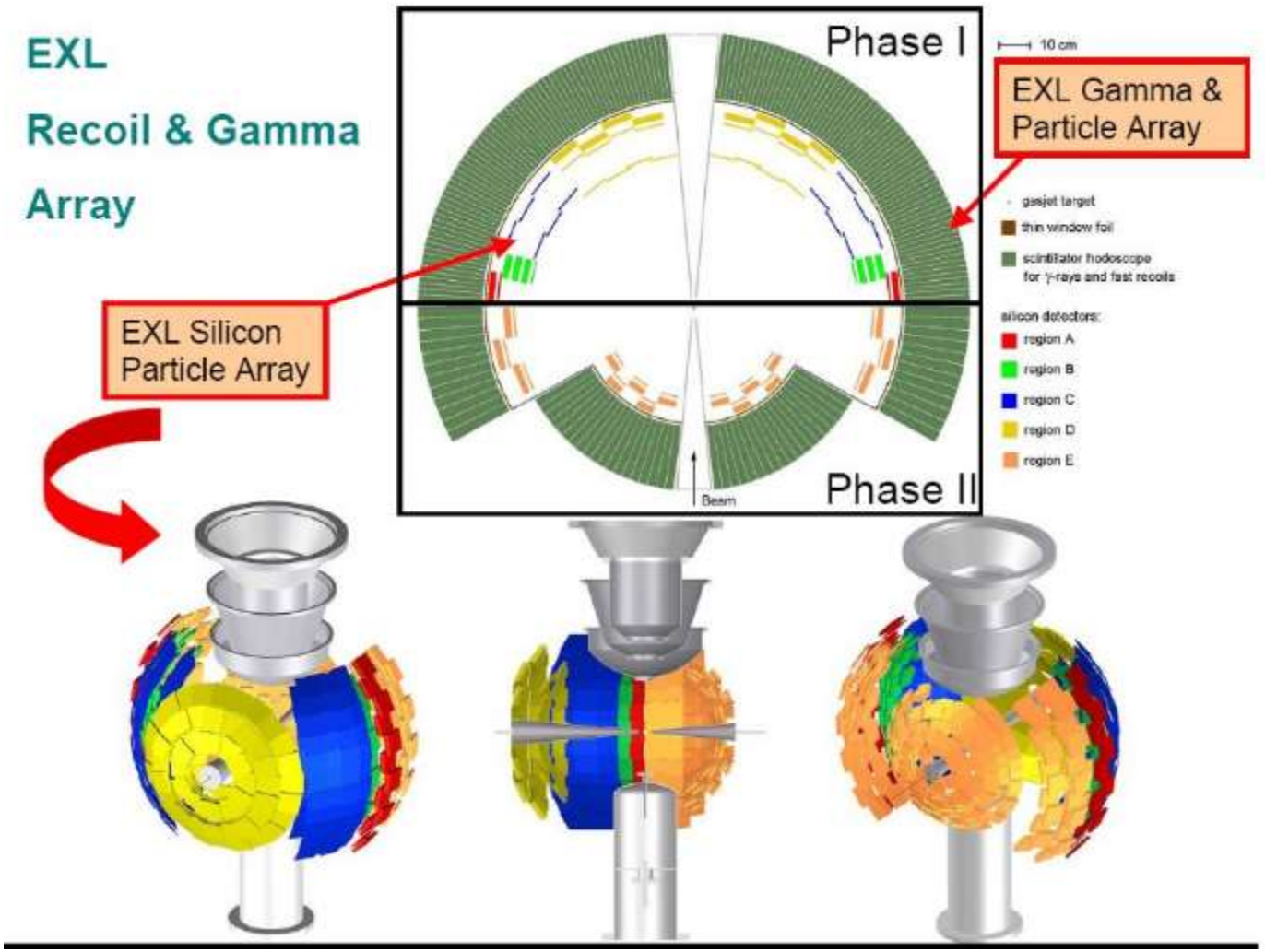
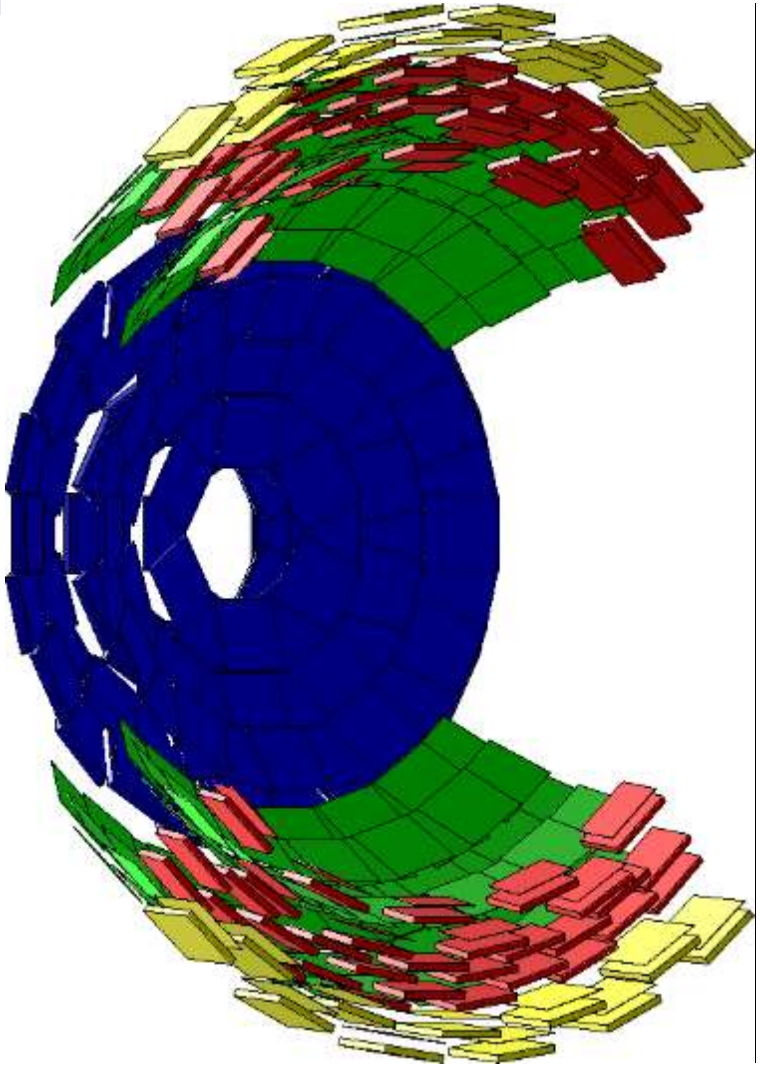


Silicon Recoil Detector



Silicon Recoil Detector

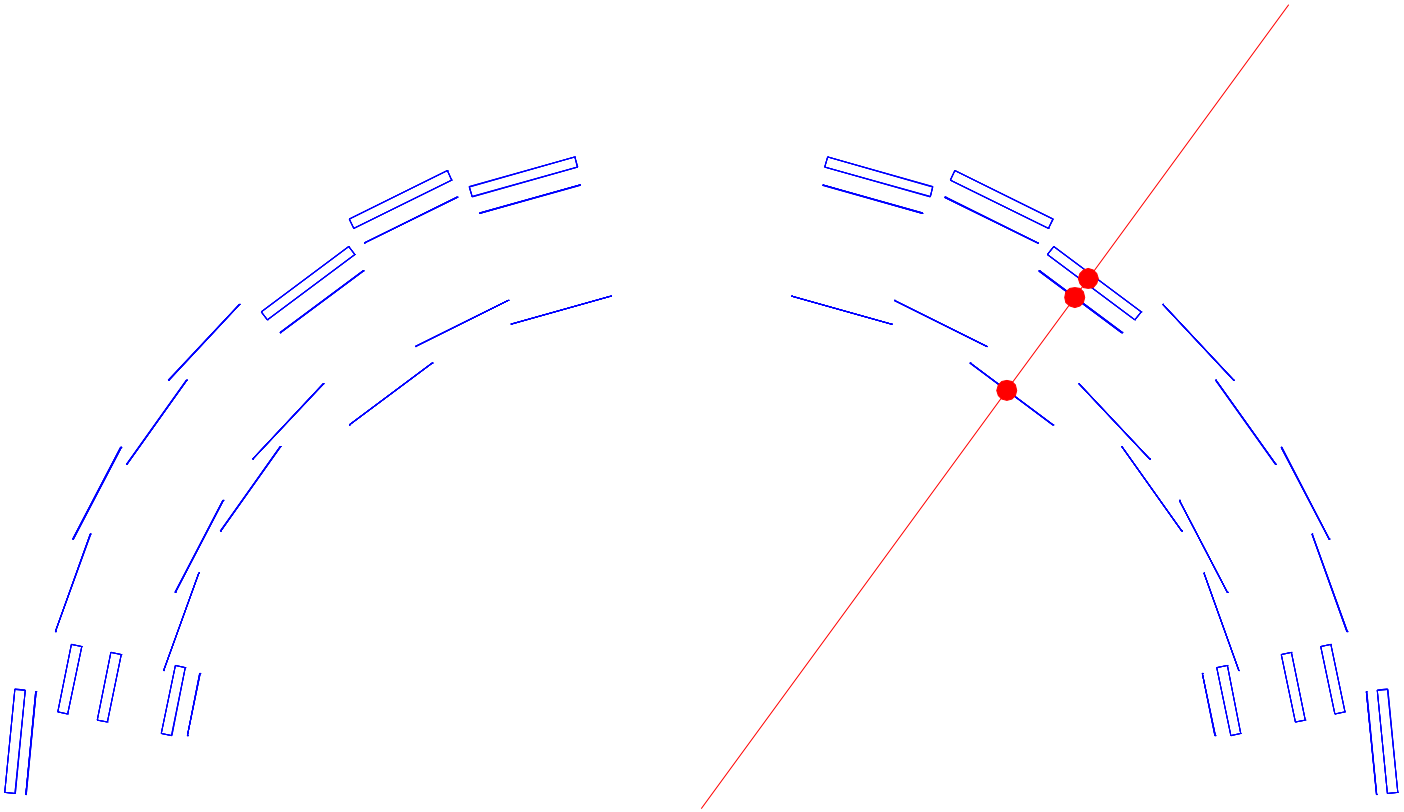


ESPA

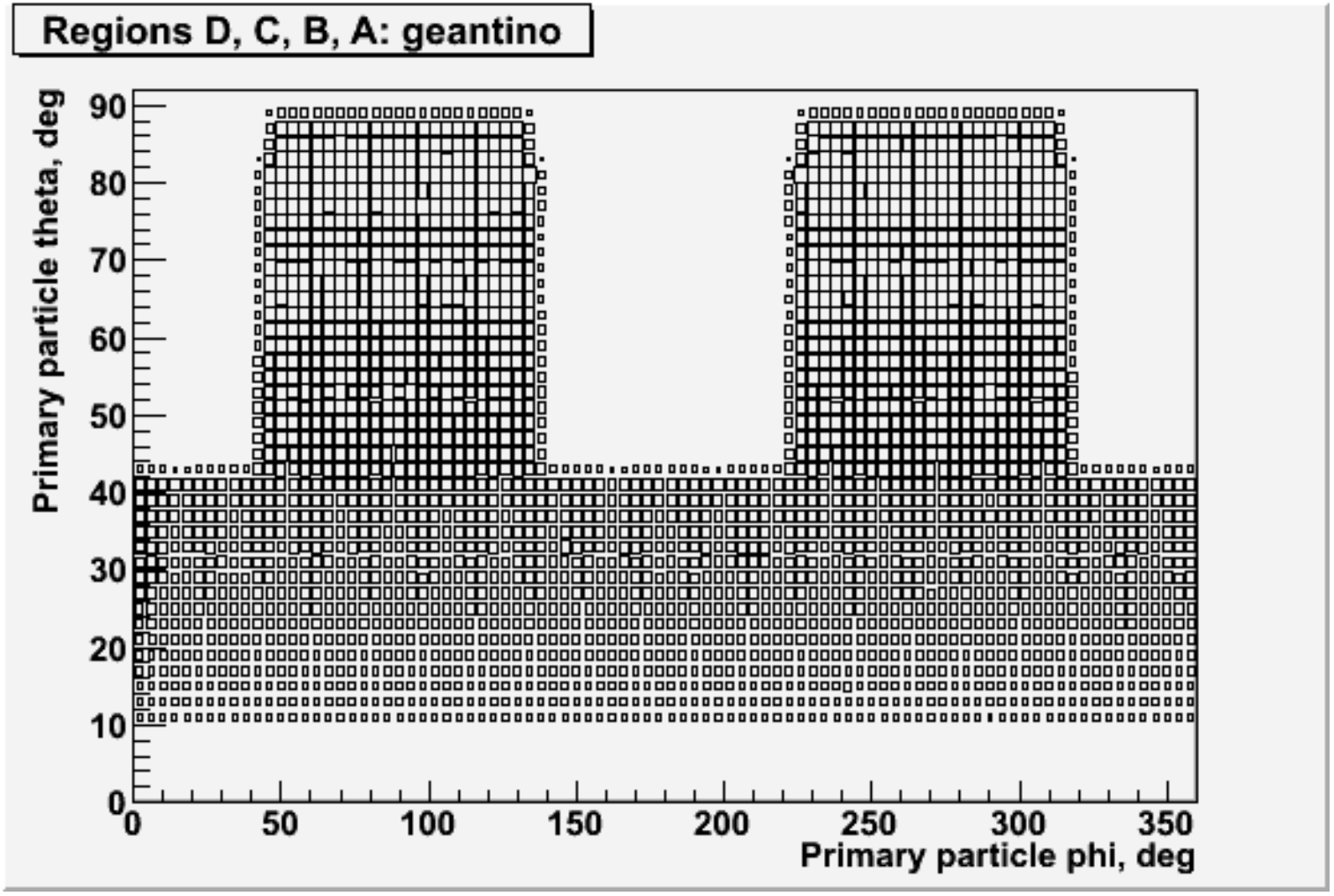
Geometry by Andrei Zalite, Milano

- **Si DSSD**
  300 μm thick, spatial resolution better than 500 μm in x and y, ΔE 30 keV (FWHM).
- **Thin Si DSSD**
  <100 μm thick, spatial resolution better than 100 μm in x and y, ΔE 30 keV (FWHM).
- **Si(Li)**
  9 mm thick, large area 100x100 mm^2, ΔE 50 keV (FWHM).
- **CsI crystals**
  High efficiency, high resolution, 20 cm thick.

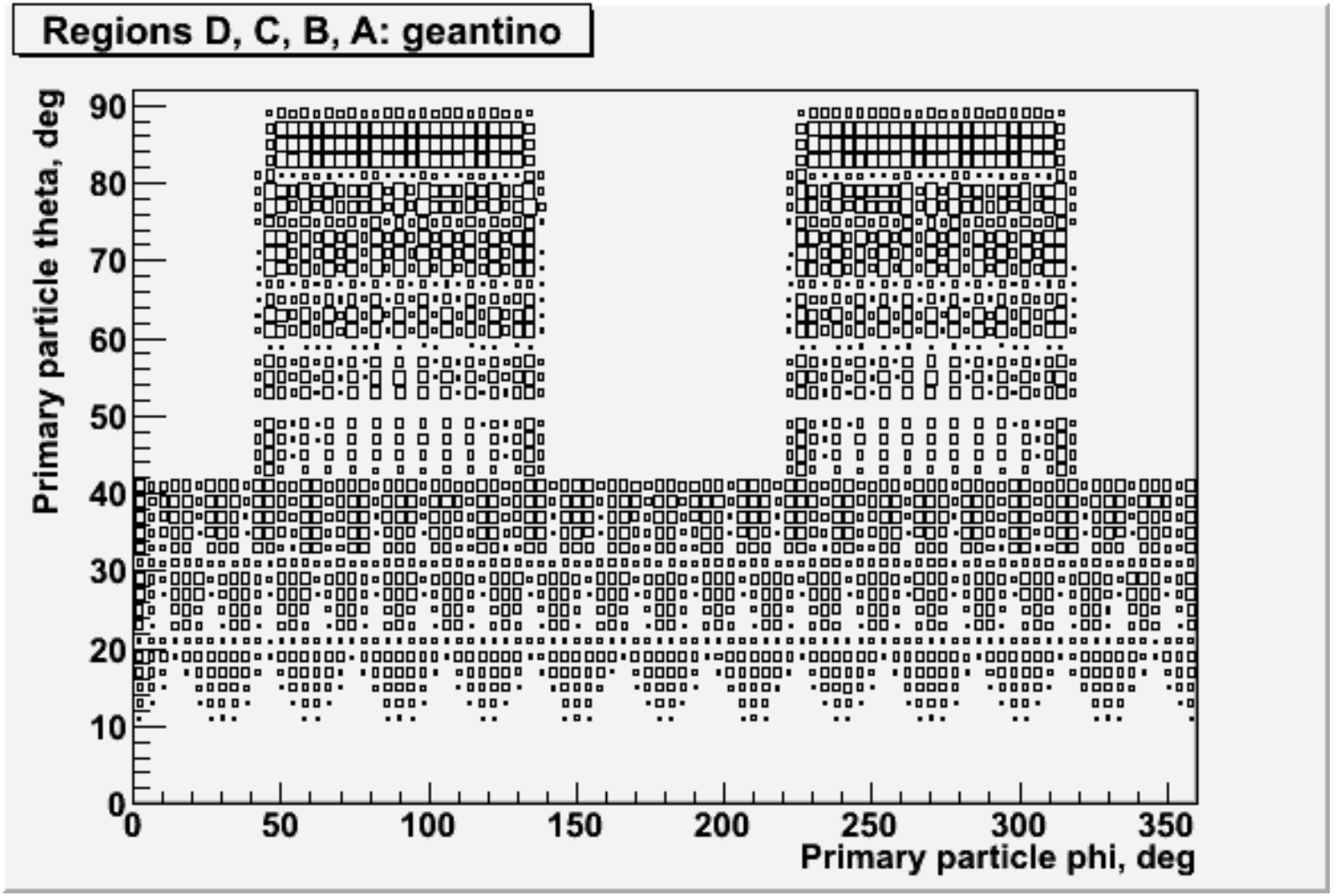
Silicon Recoil Detector



Silicon Recoil Detector



Overlap of Silicon Detectors



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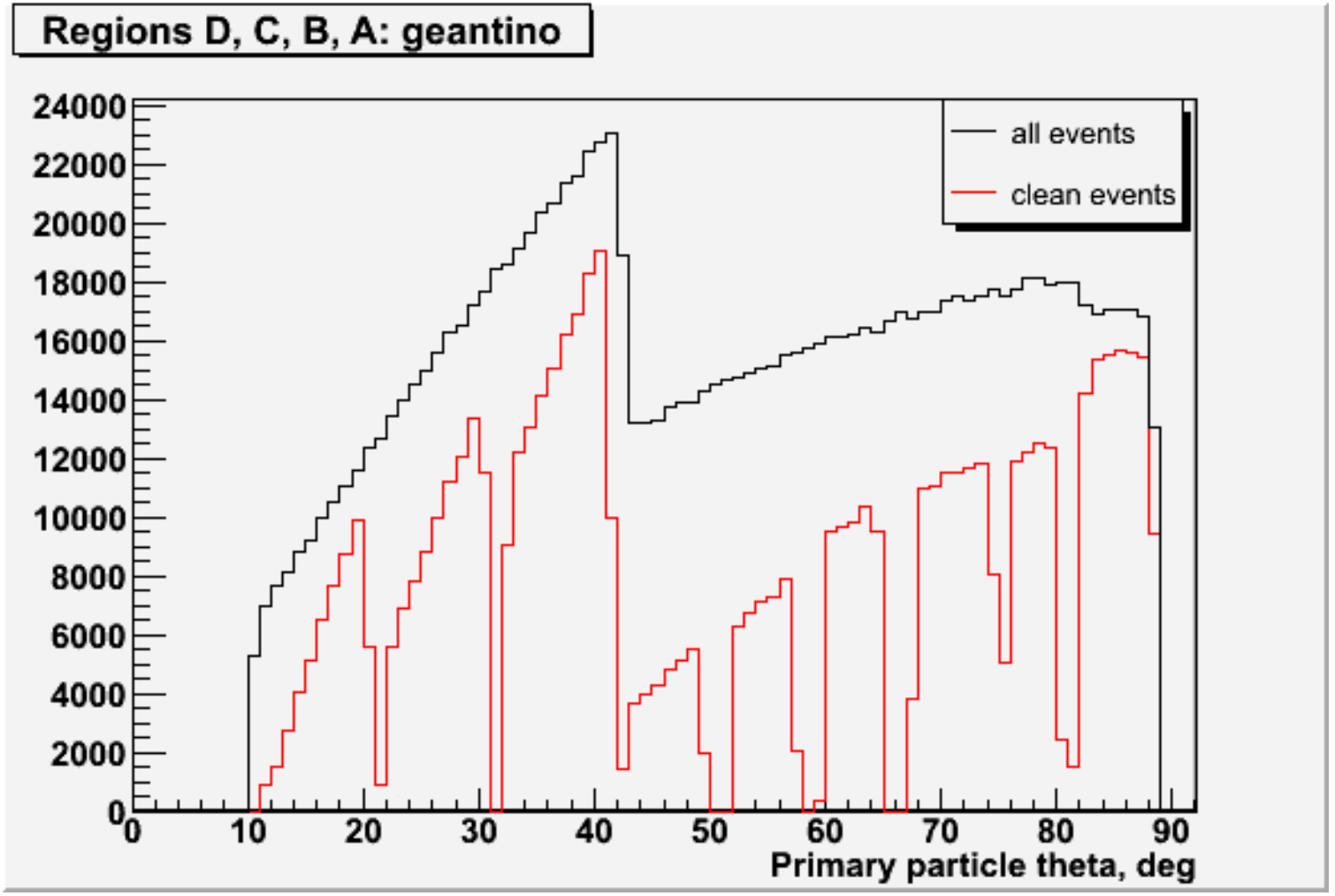
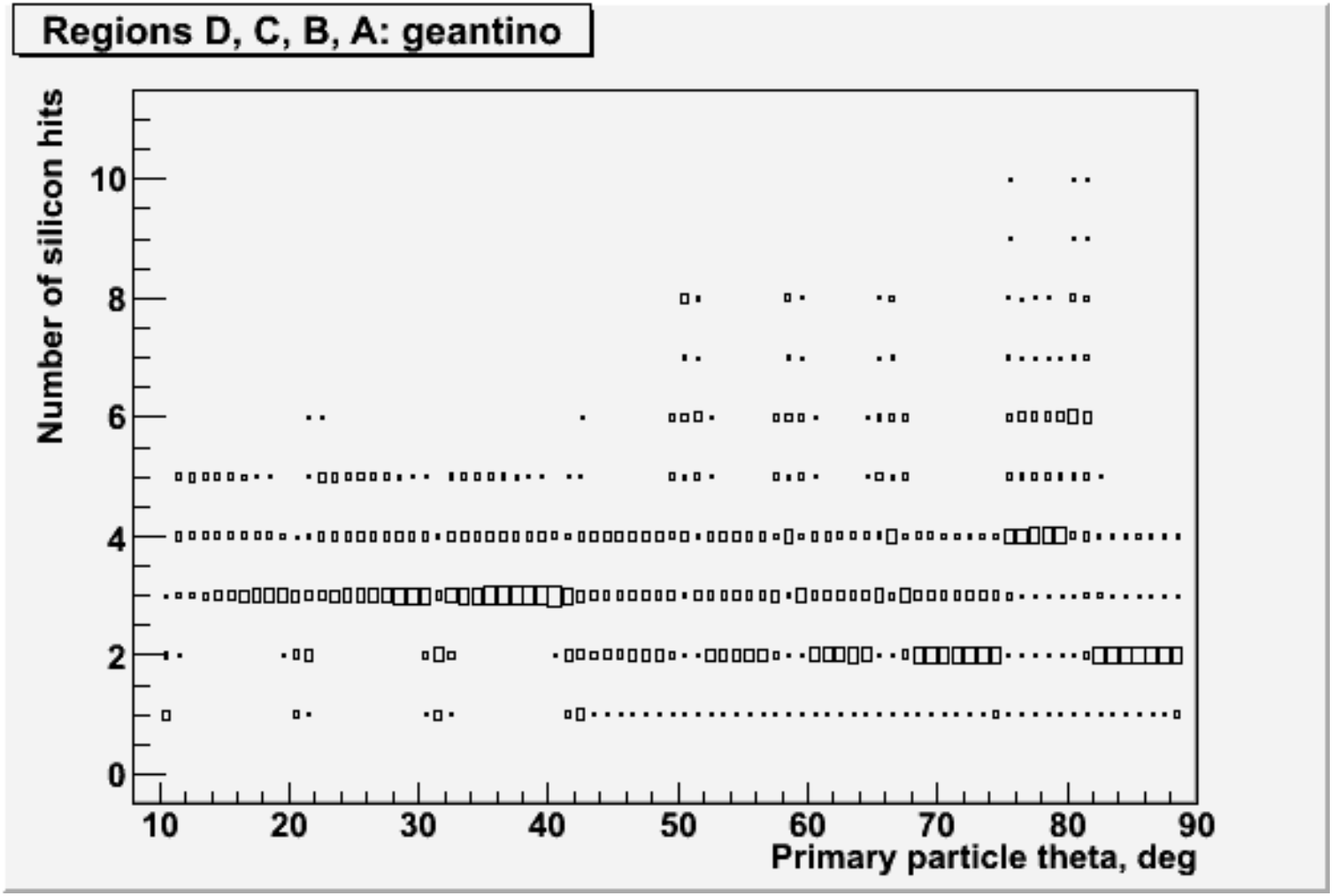
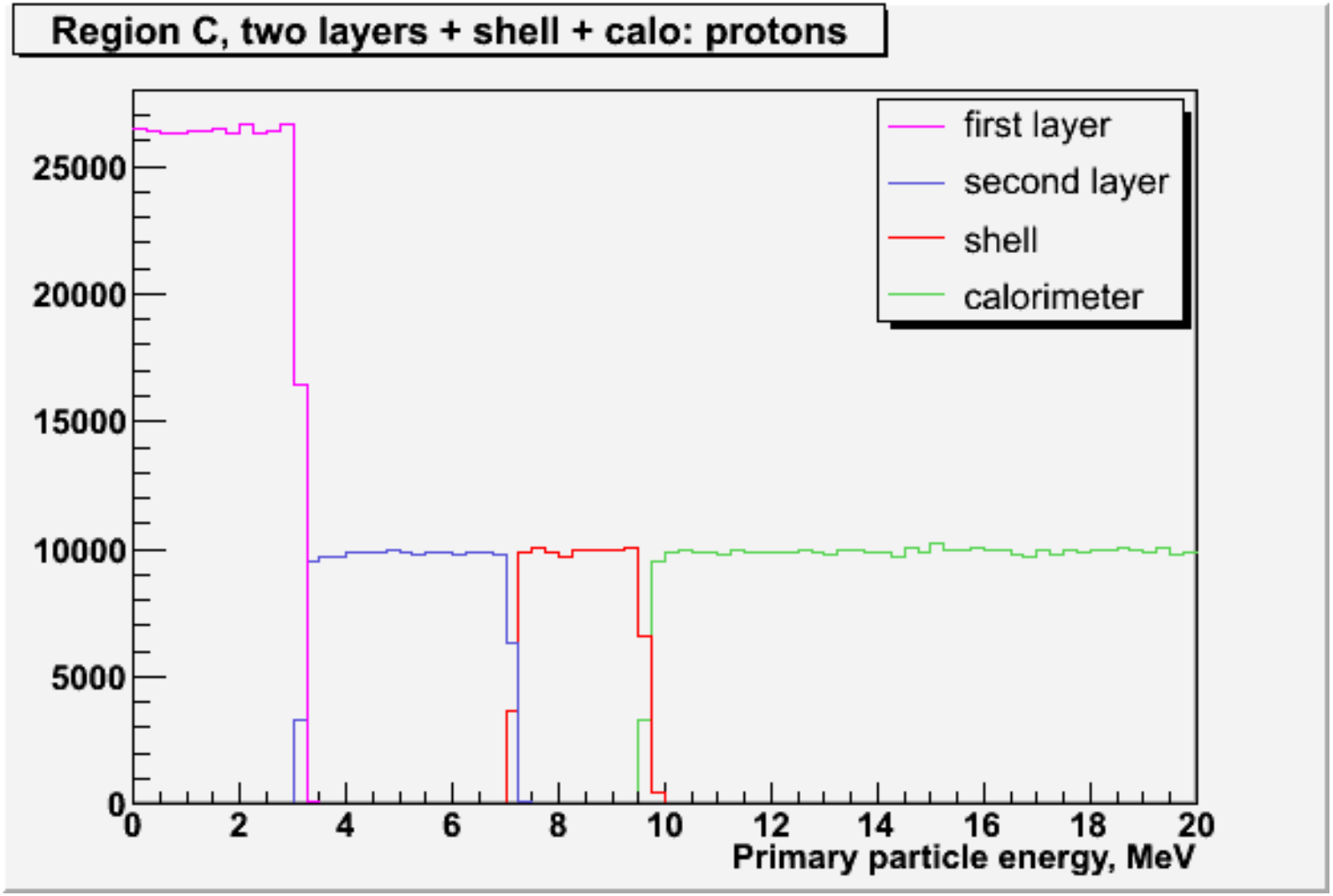


Overlap of Silicon Detectors



Energy Measurement



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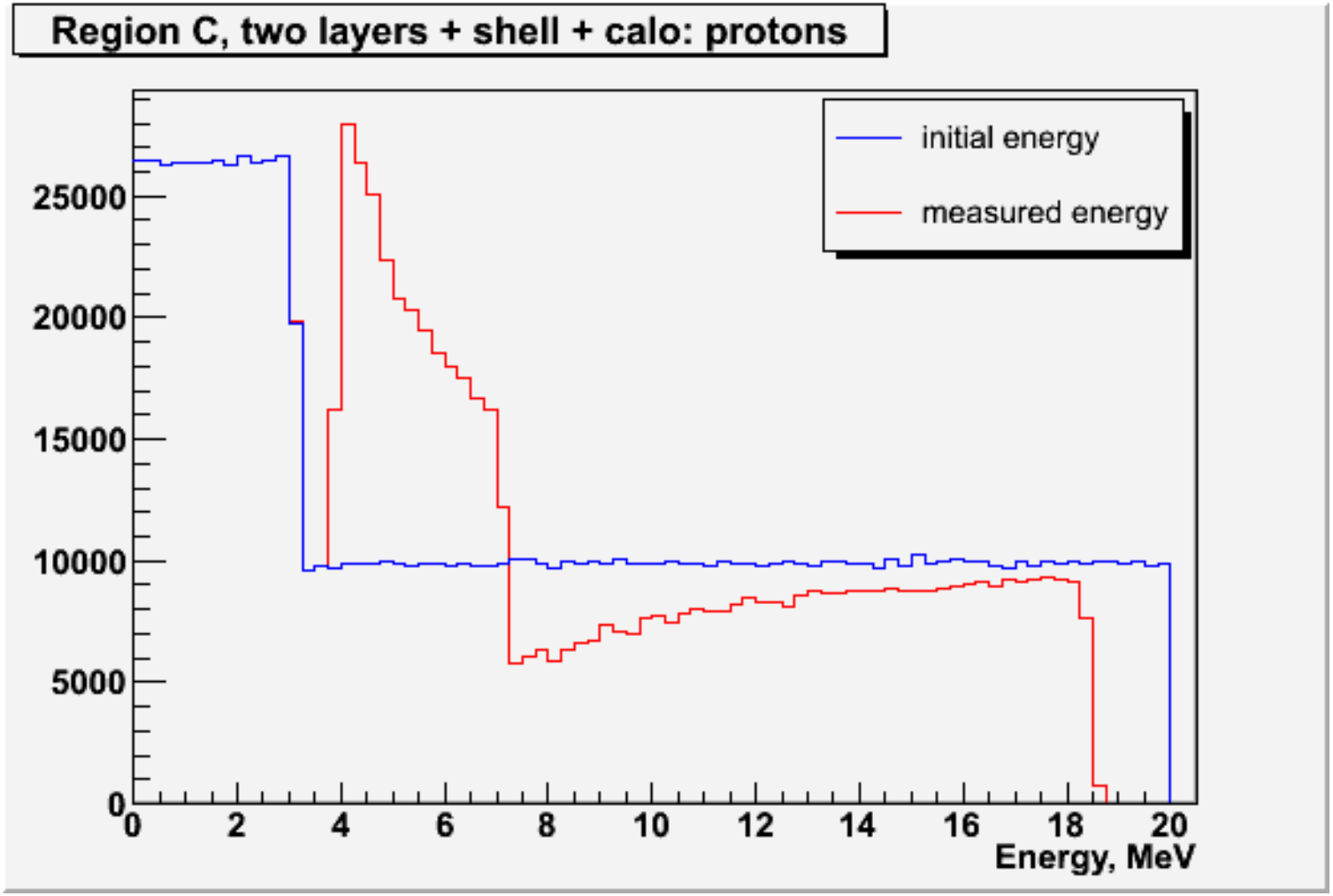

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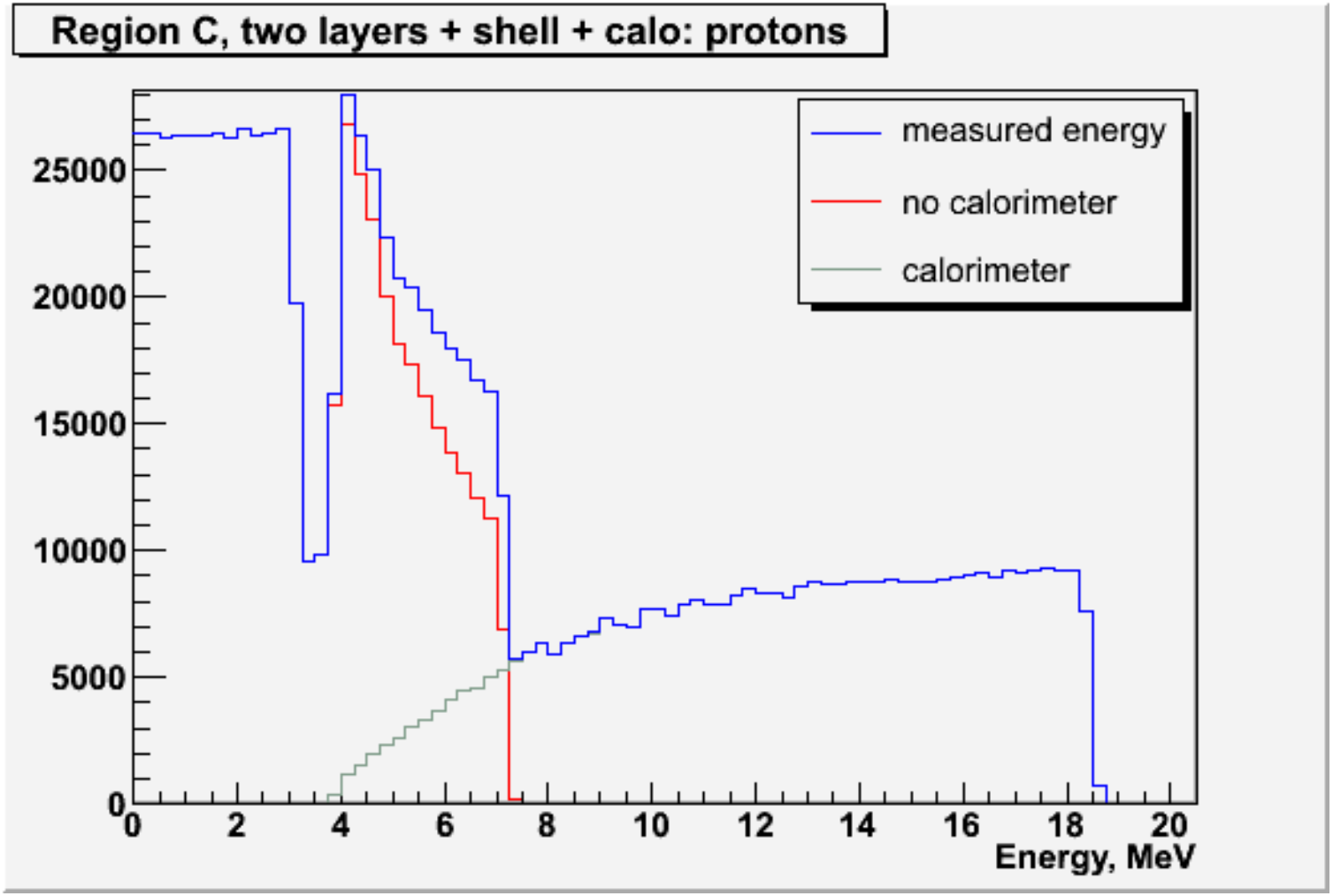

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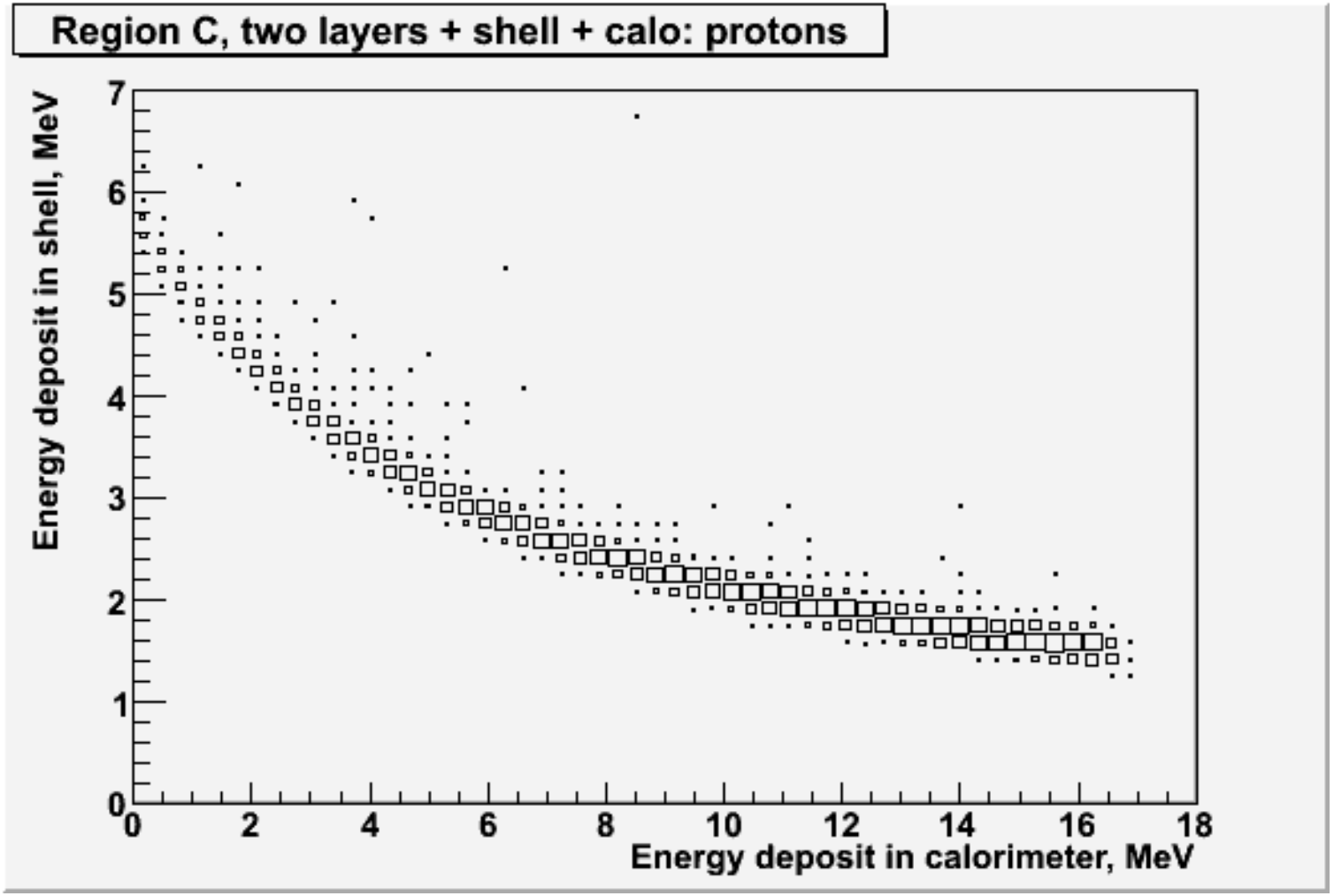

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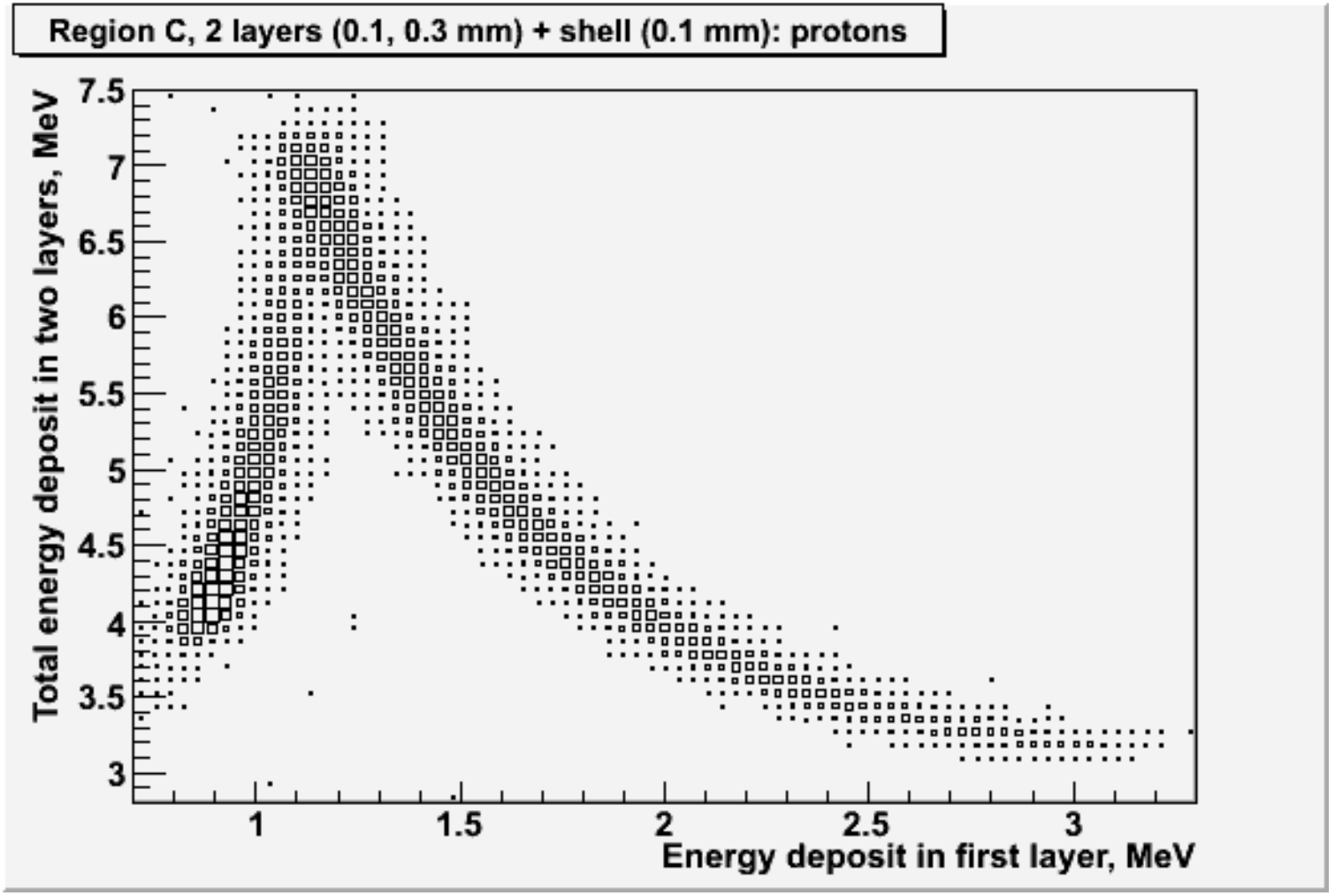

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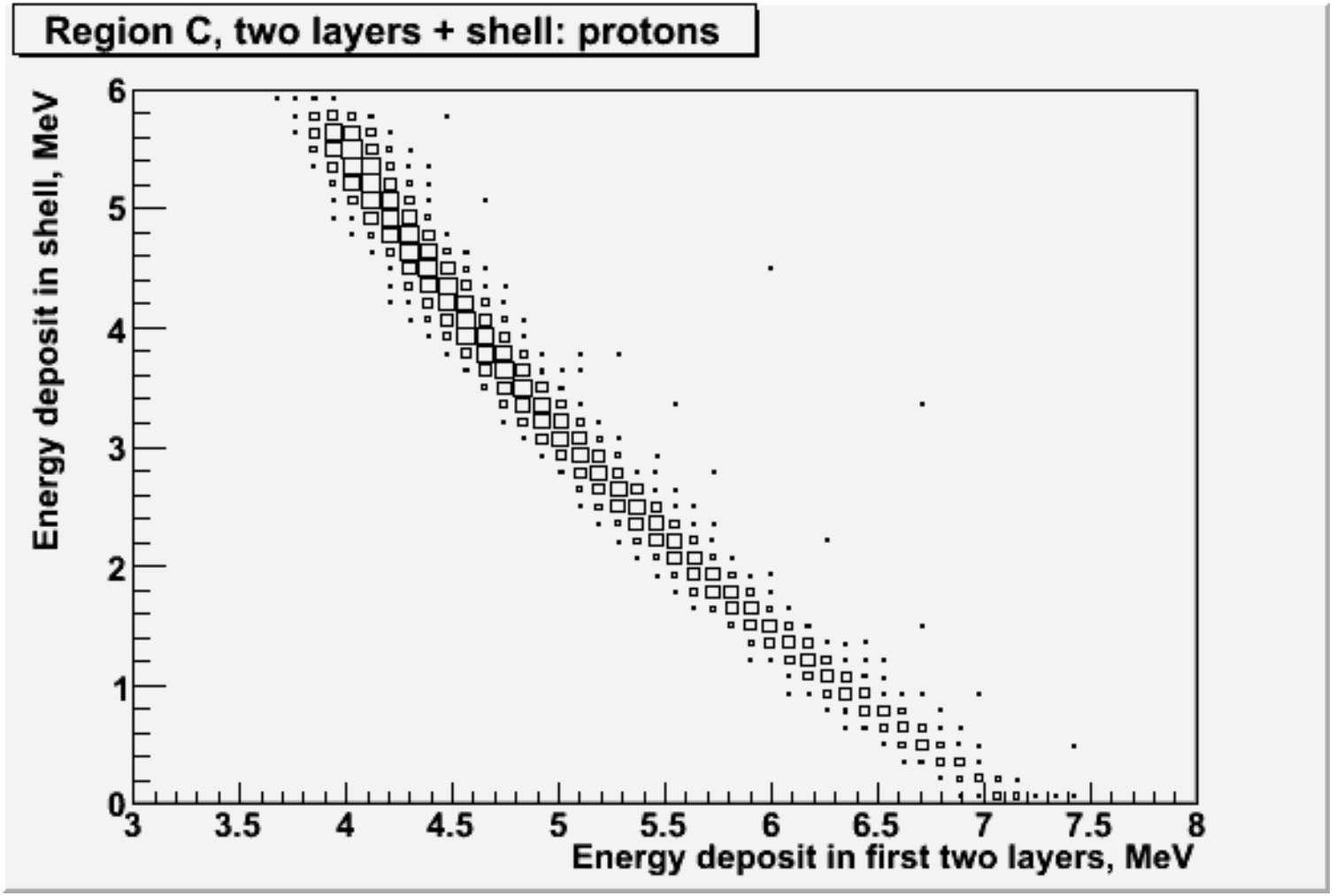

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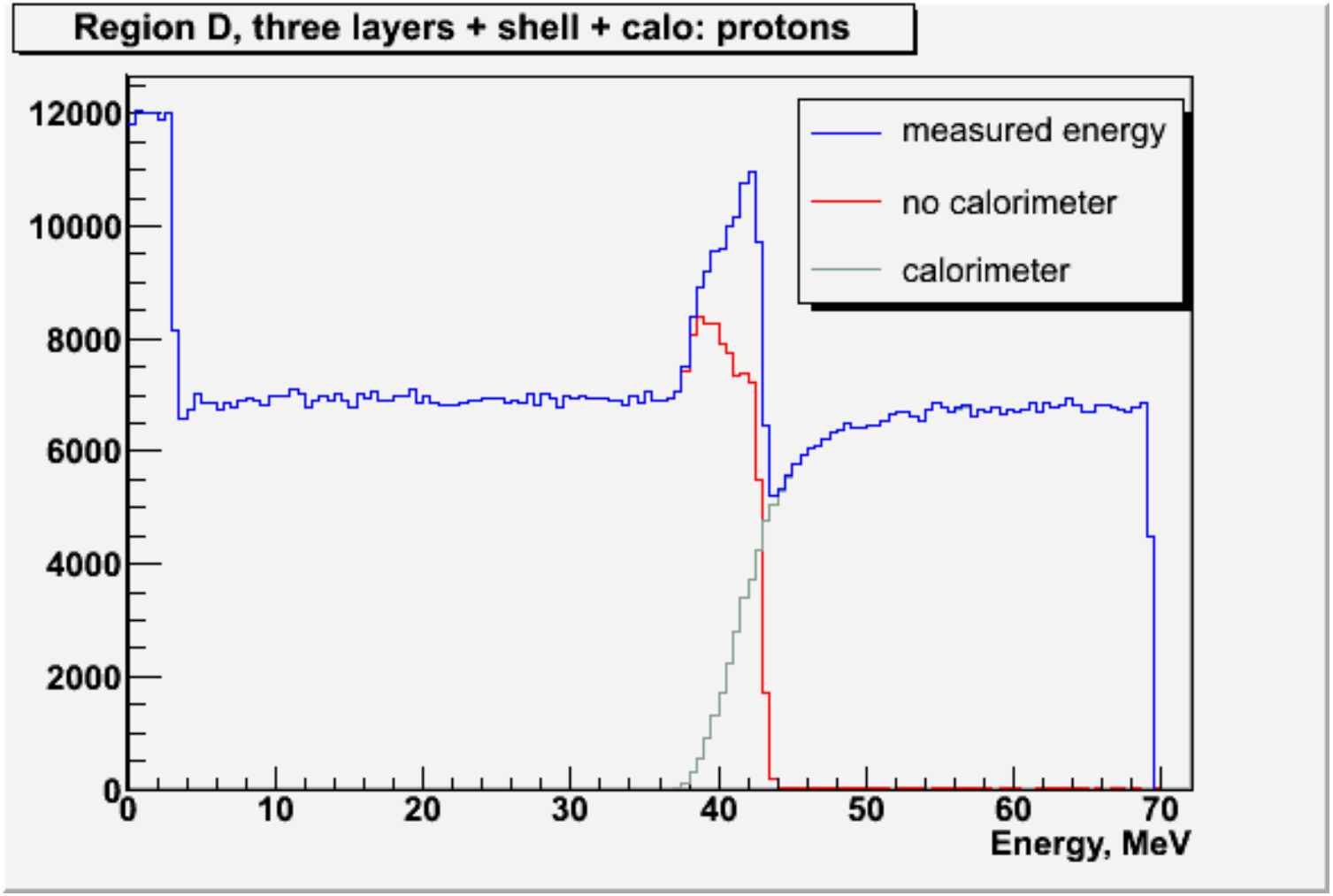

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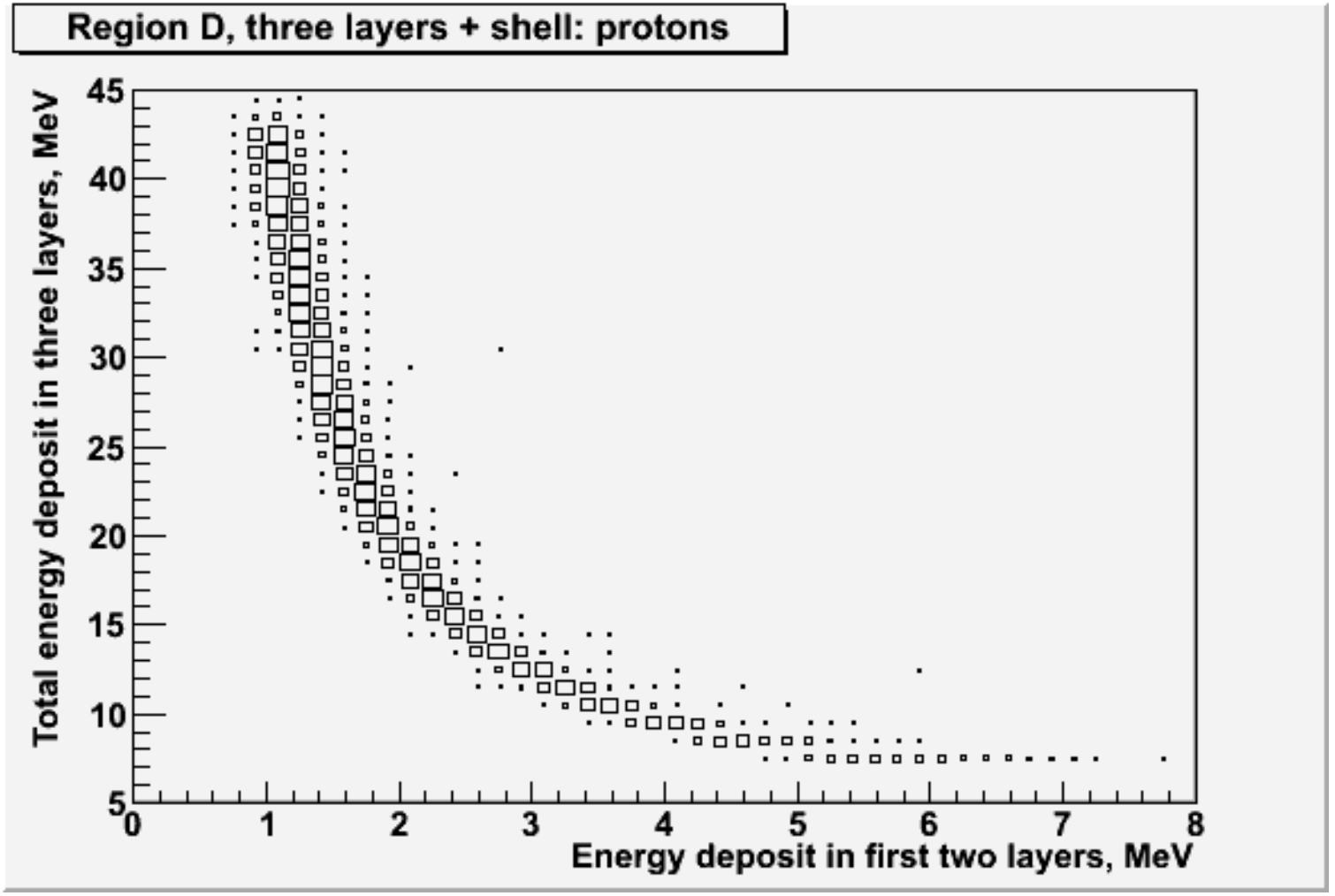

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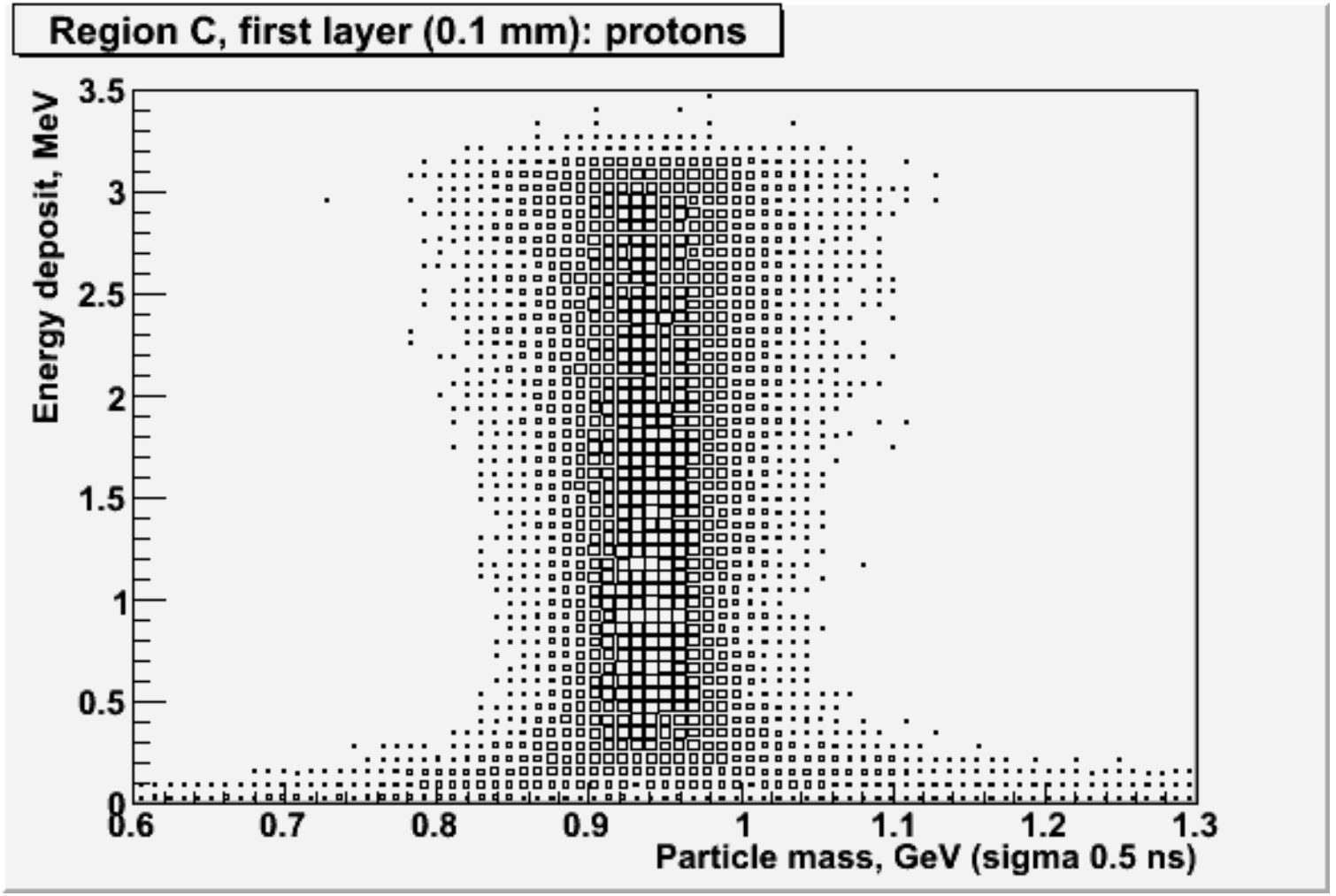

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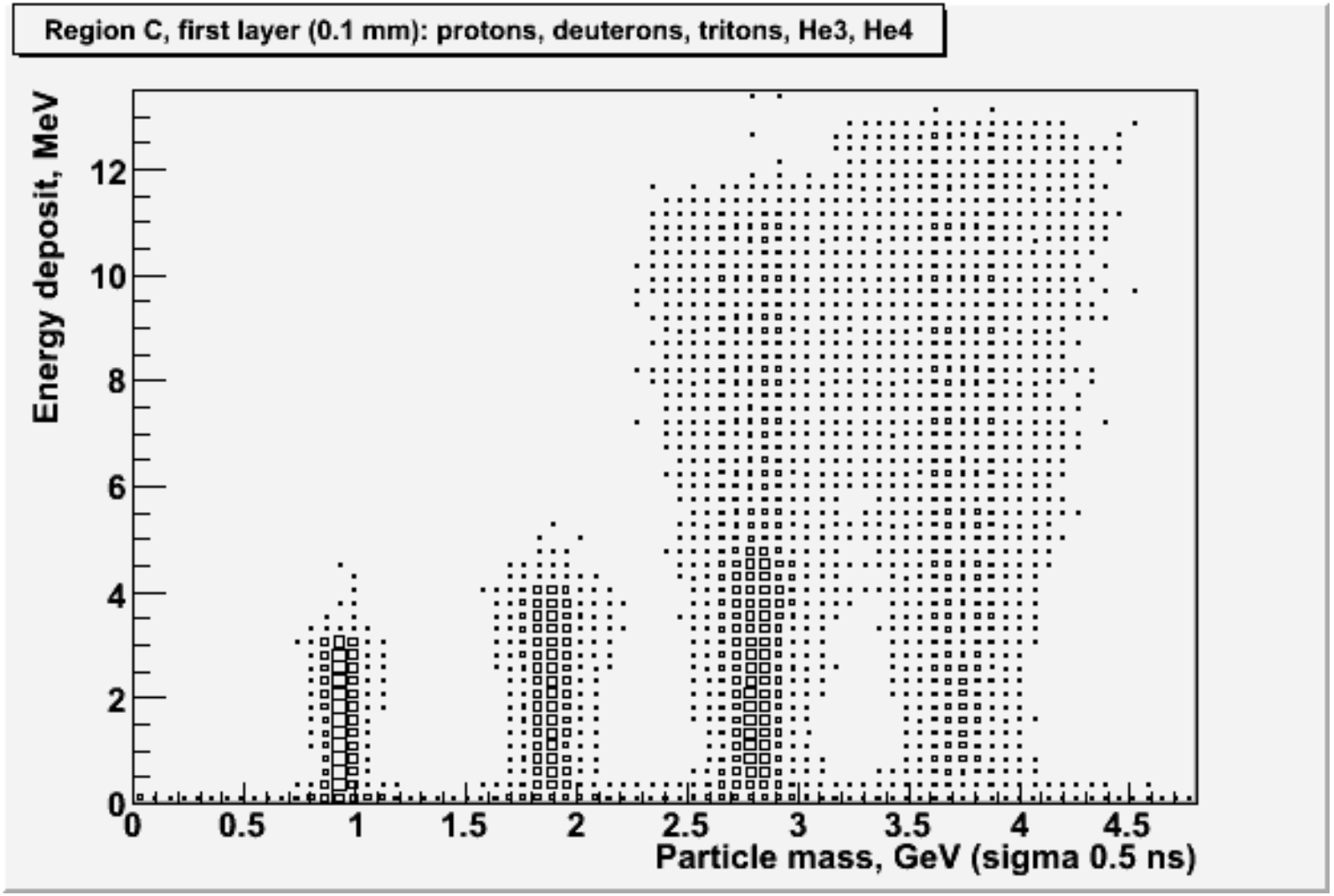

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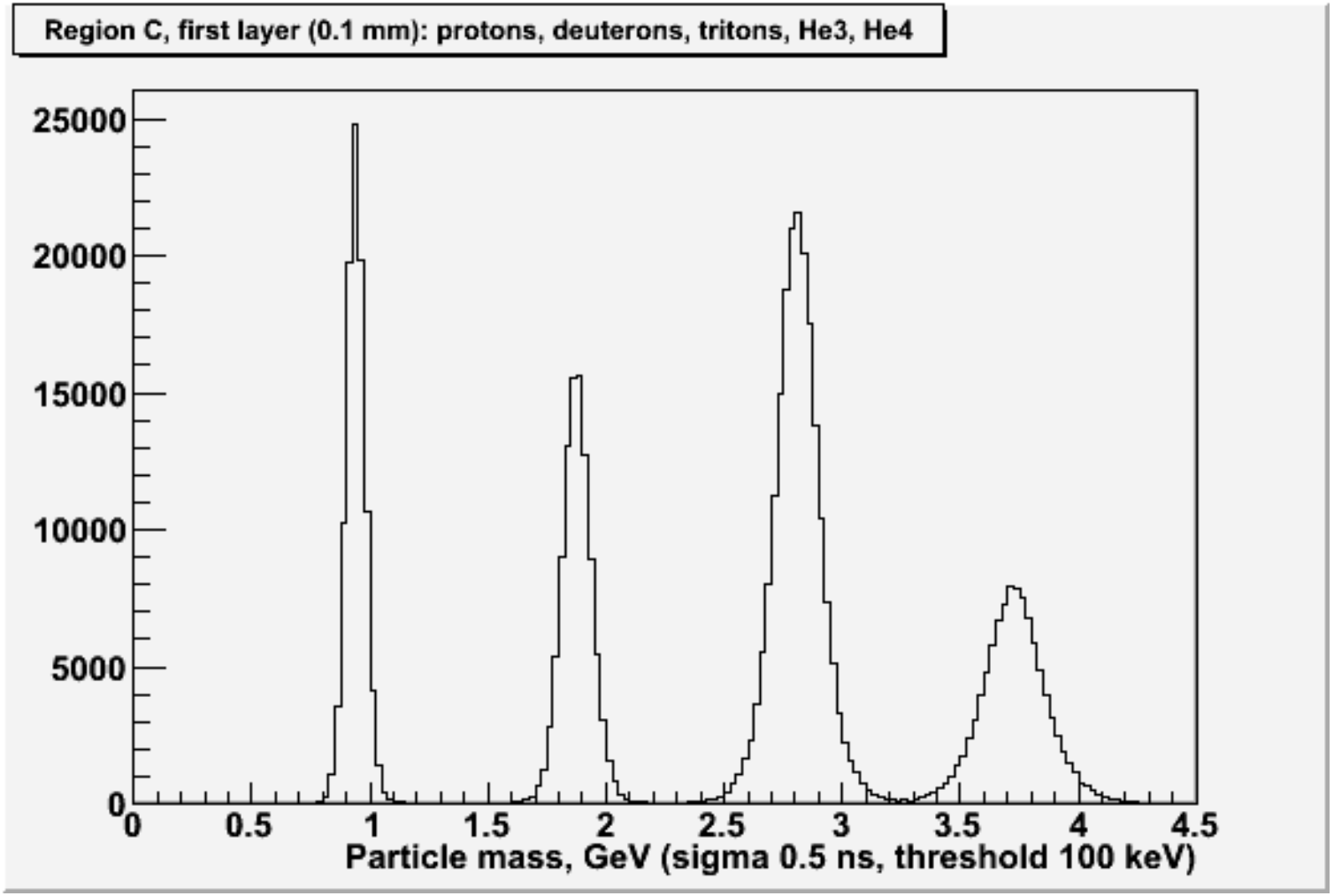

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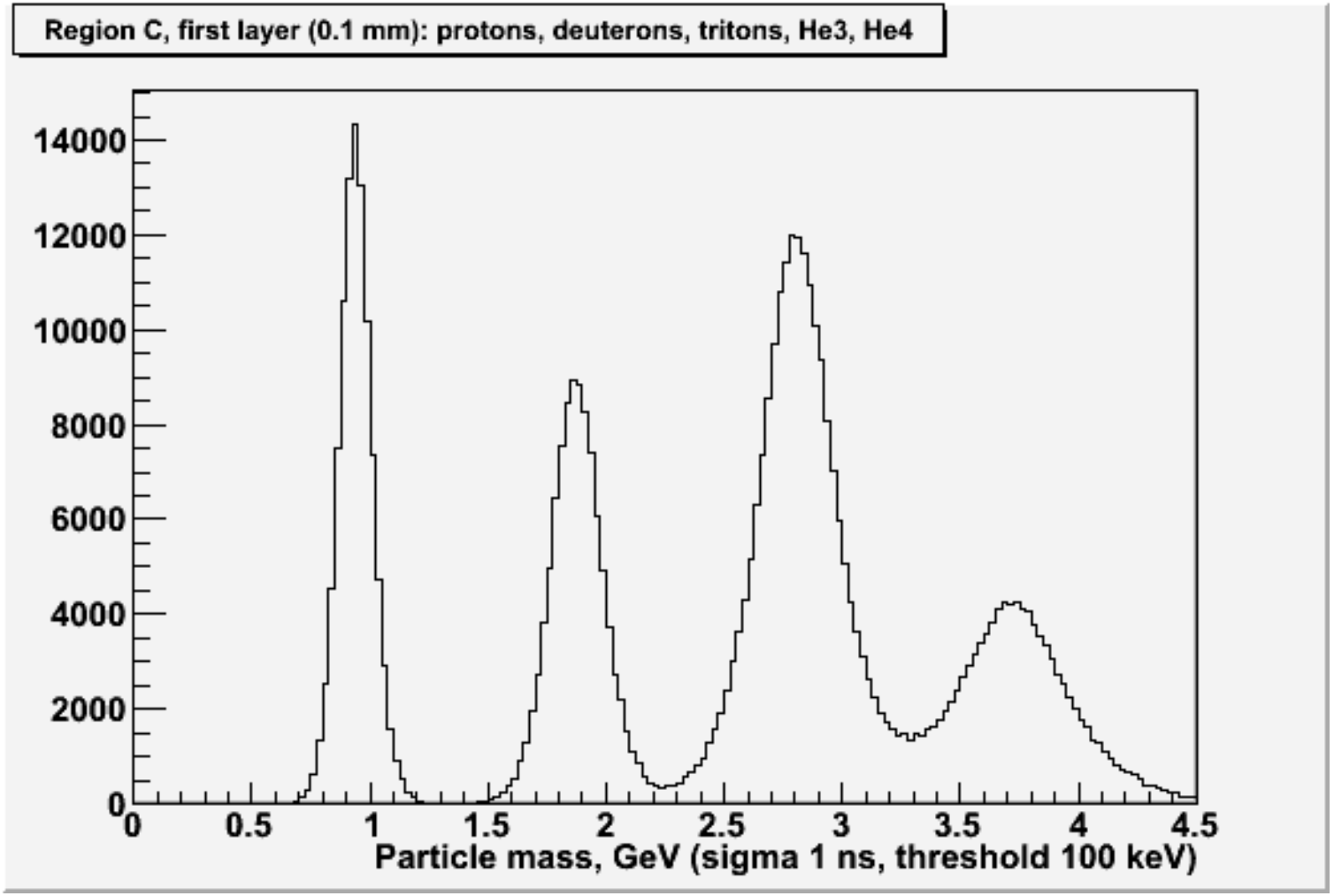

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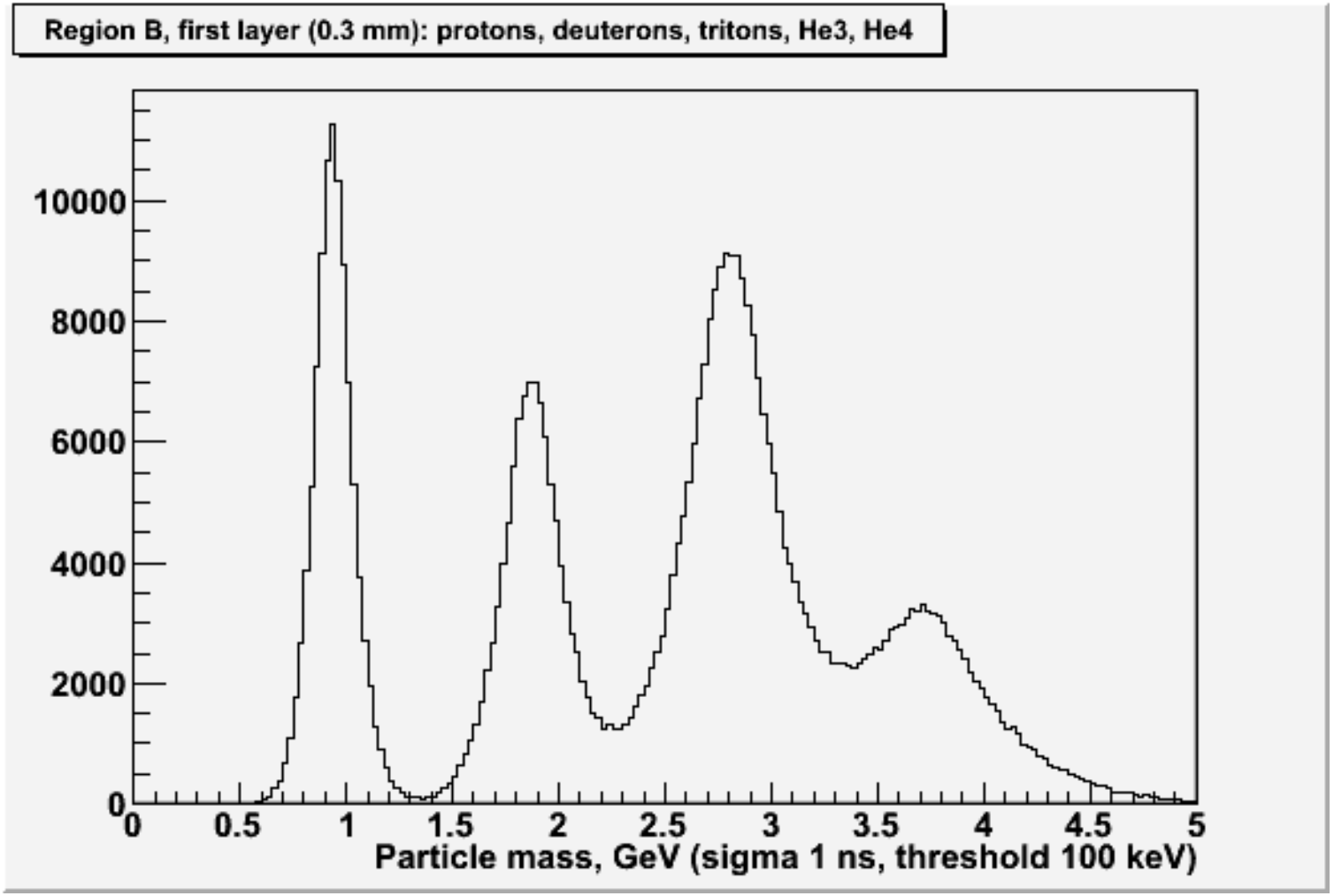

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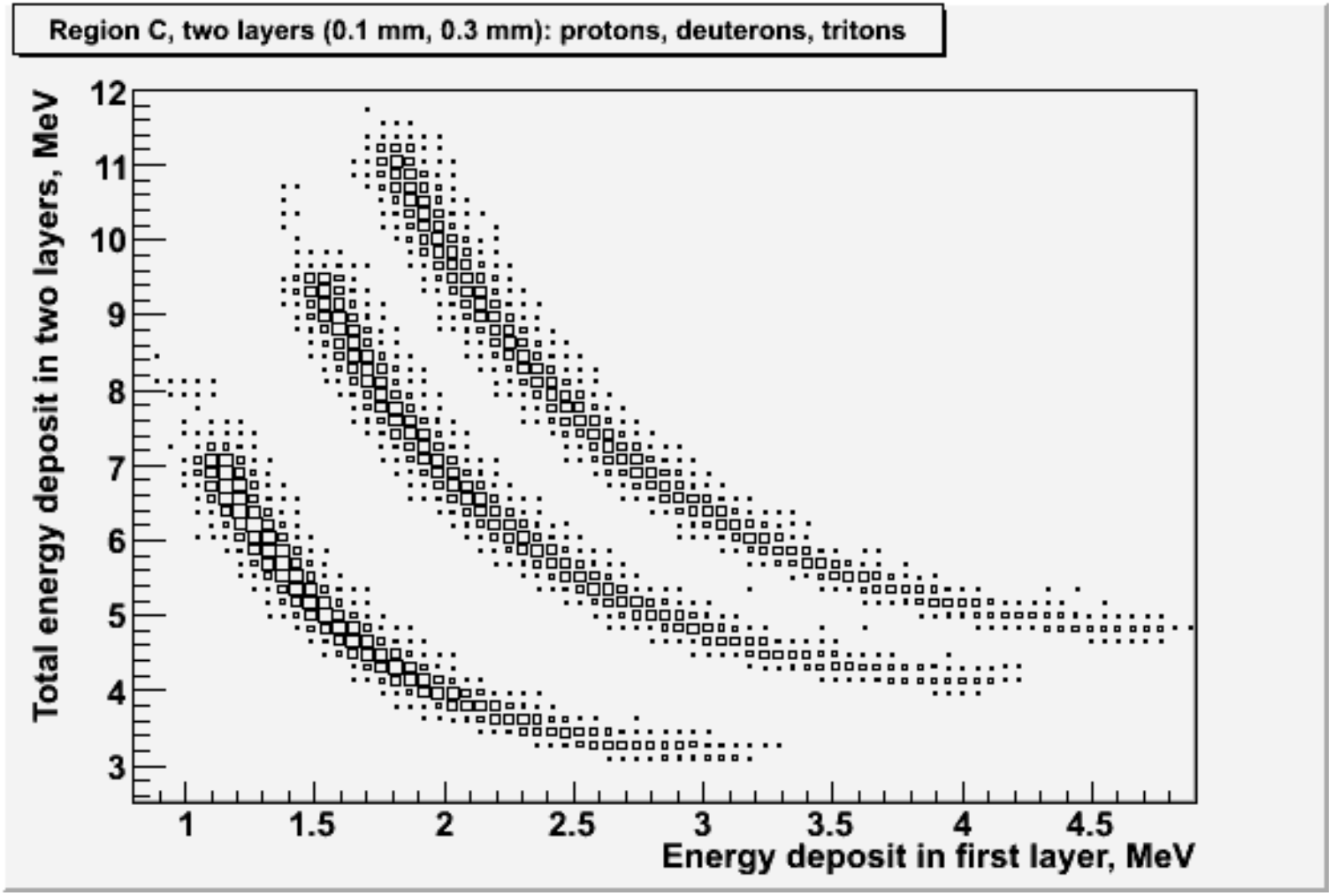

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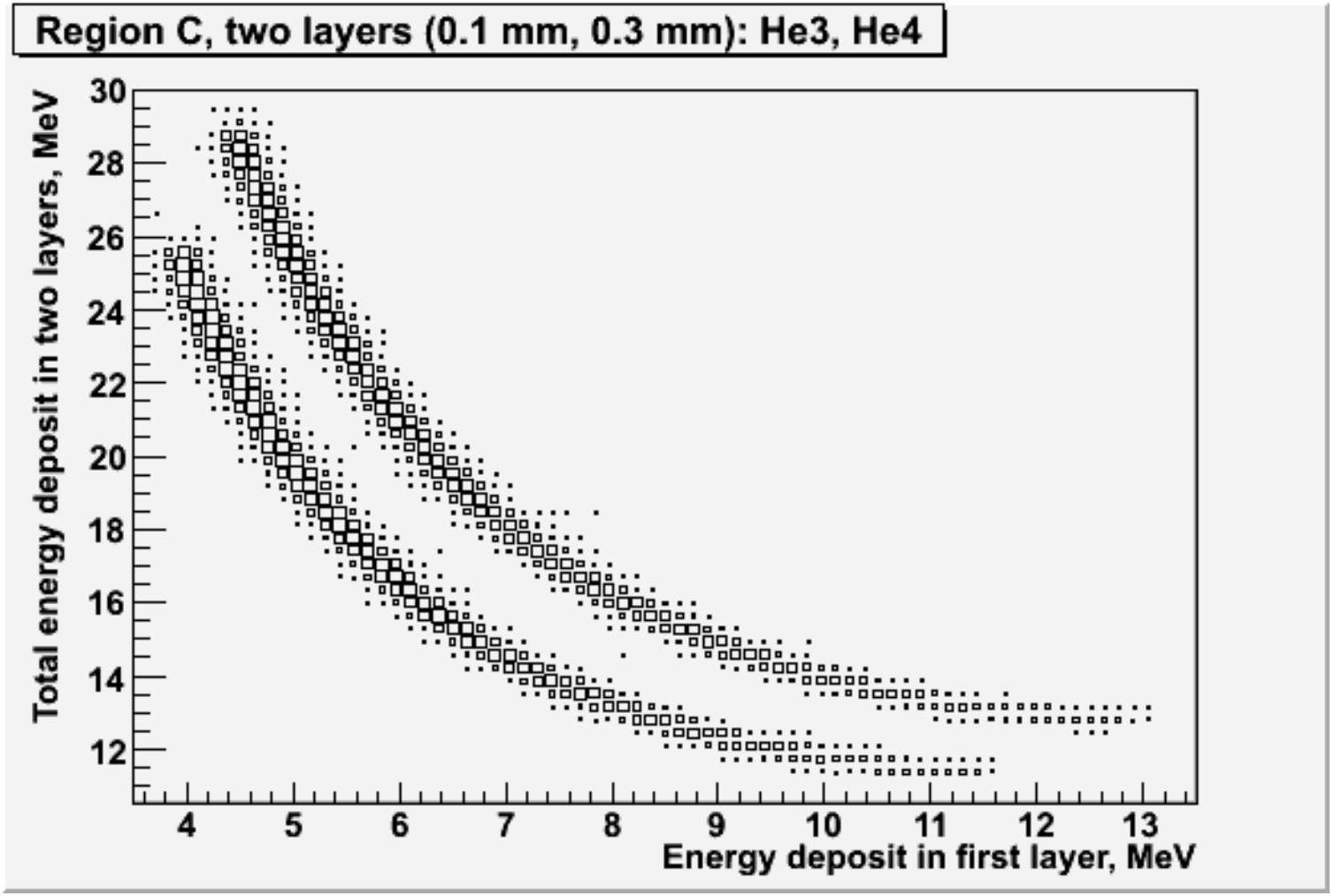

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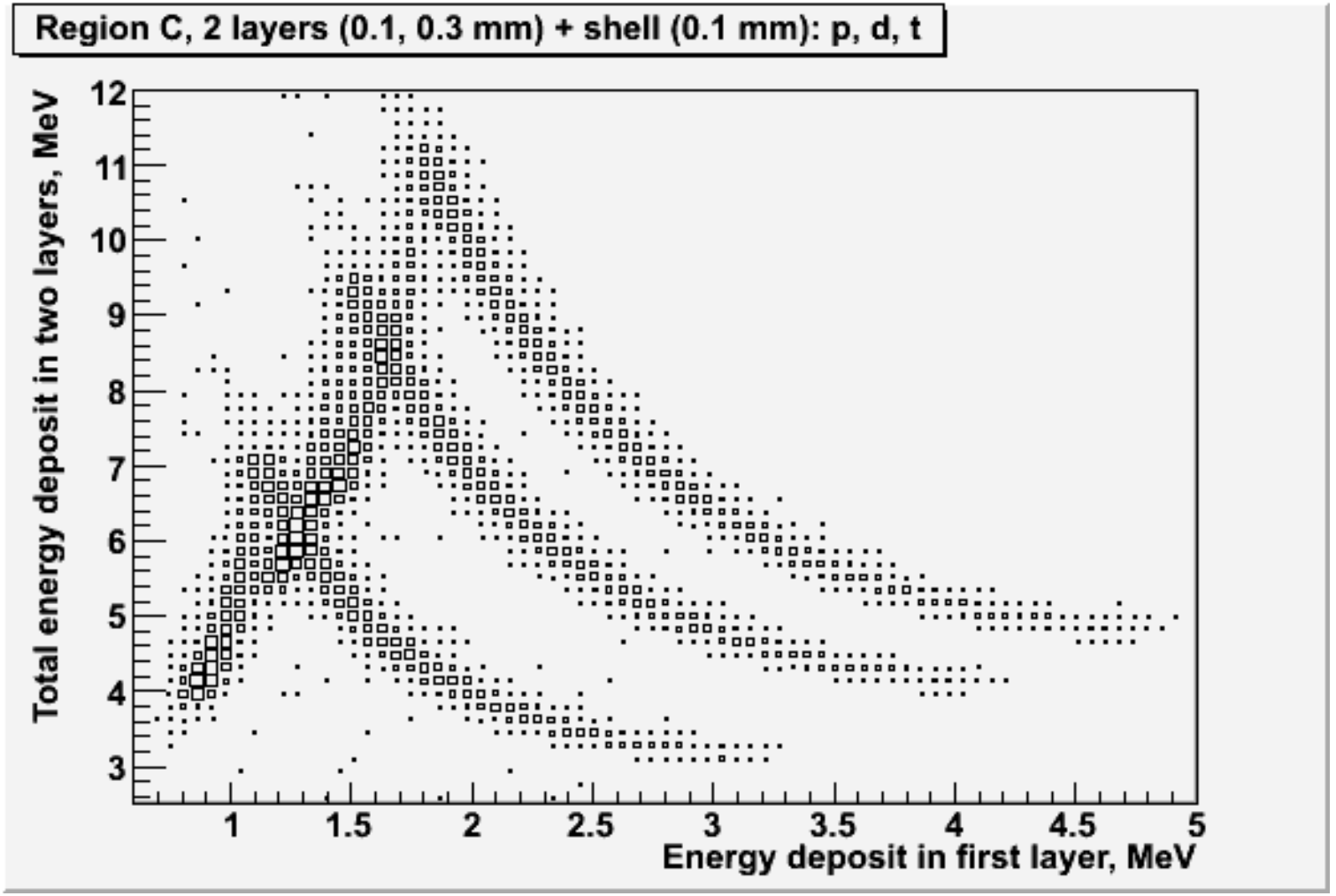

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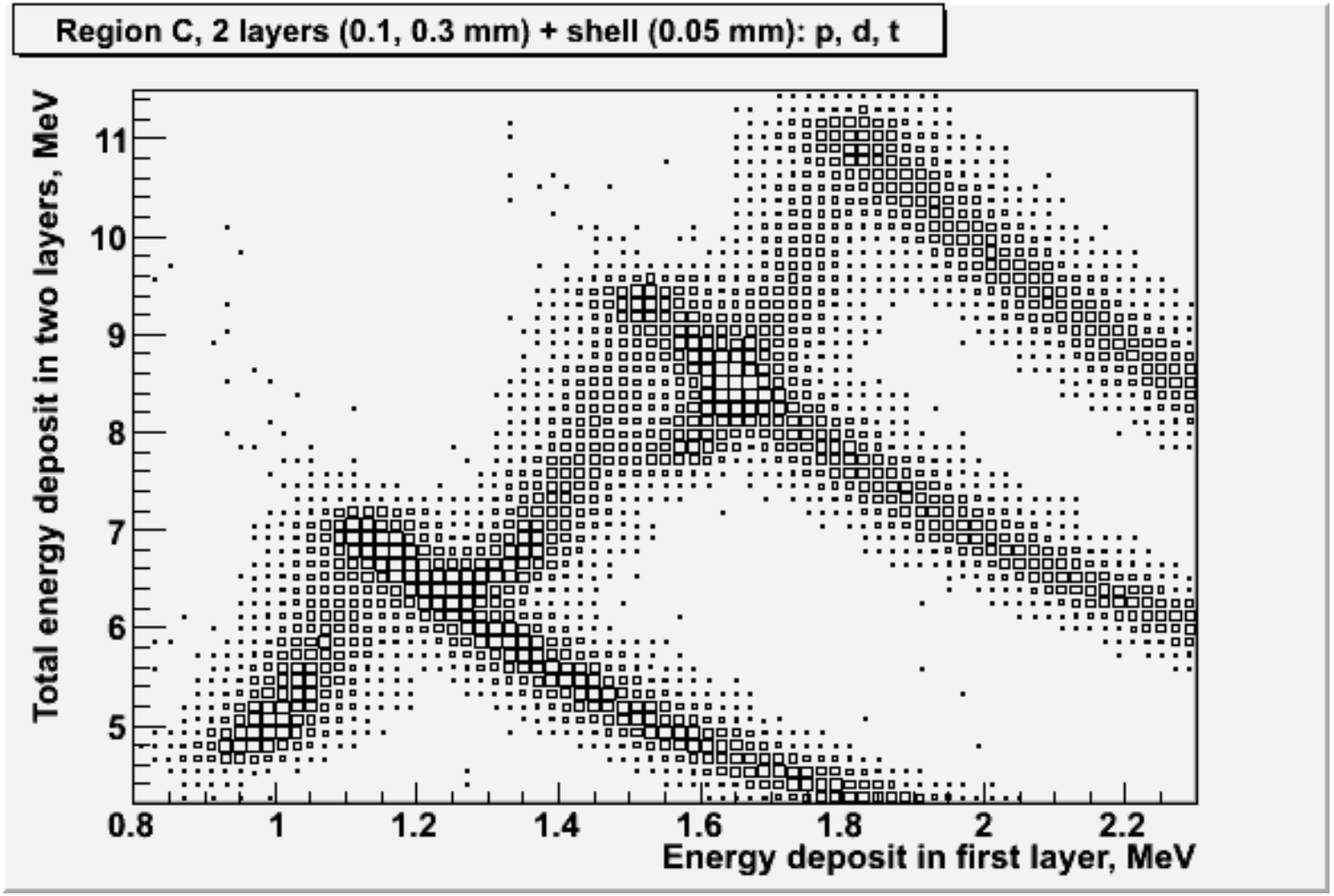

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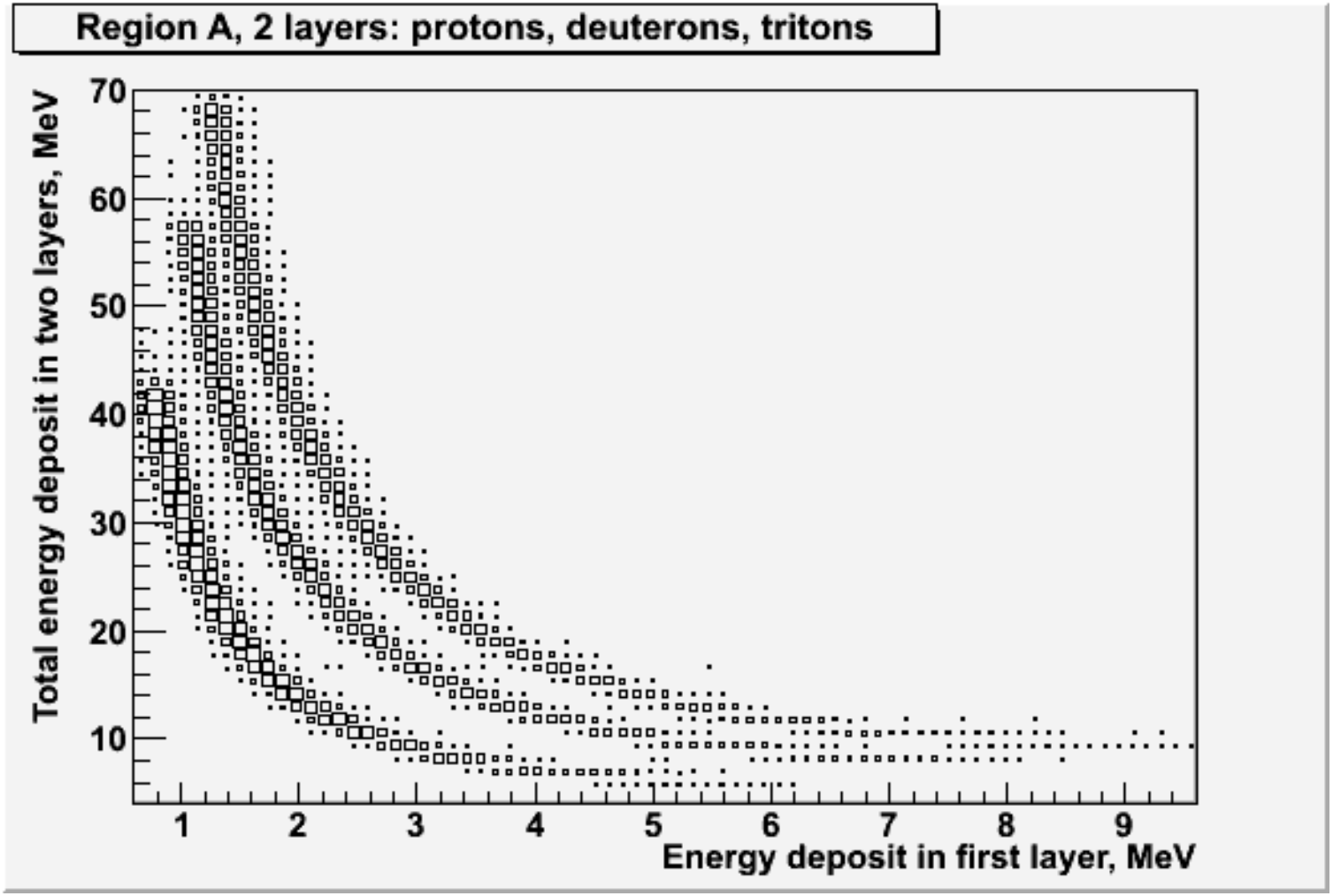

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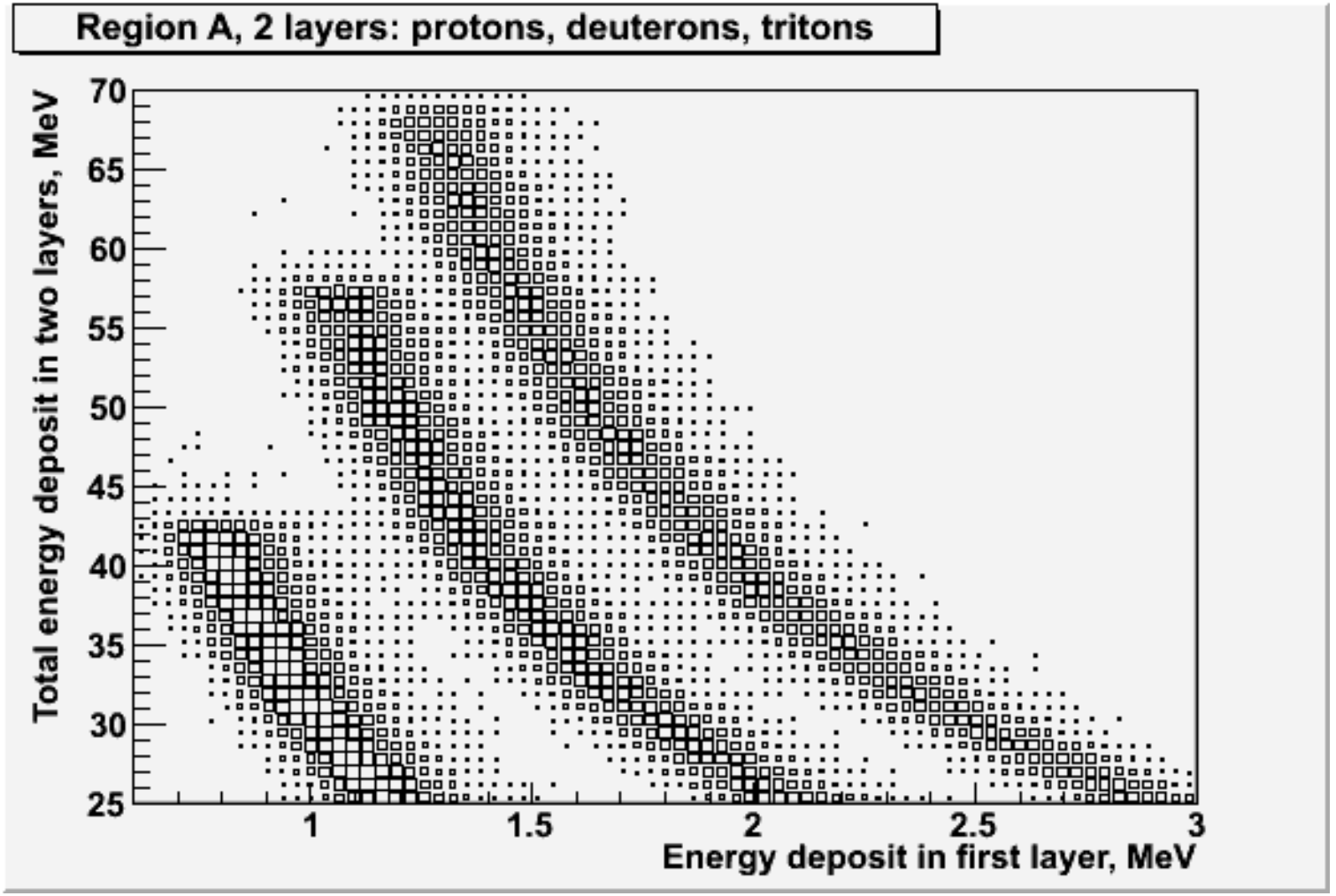
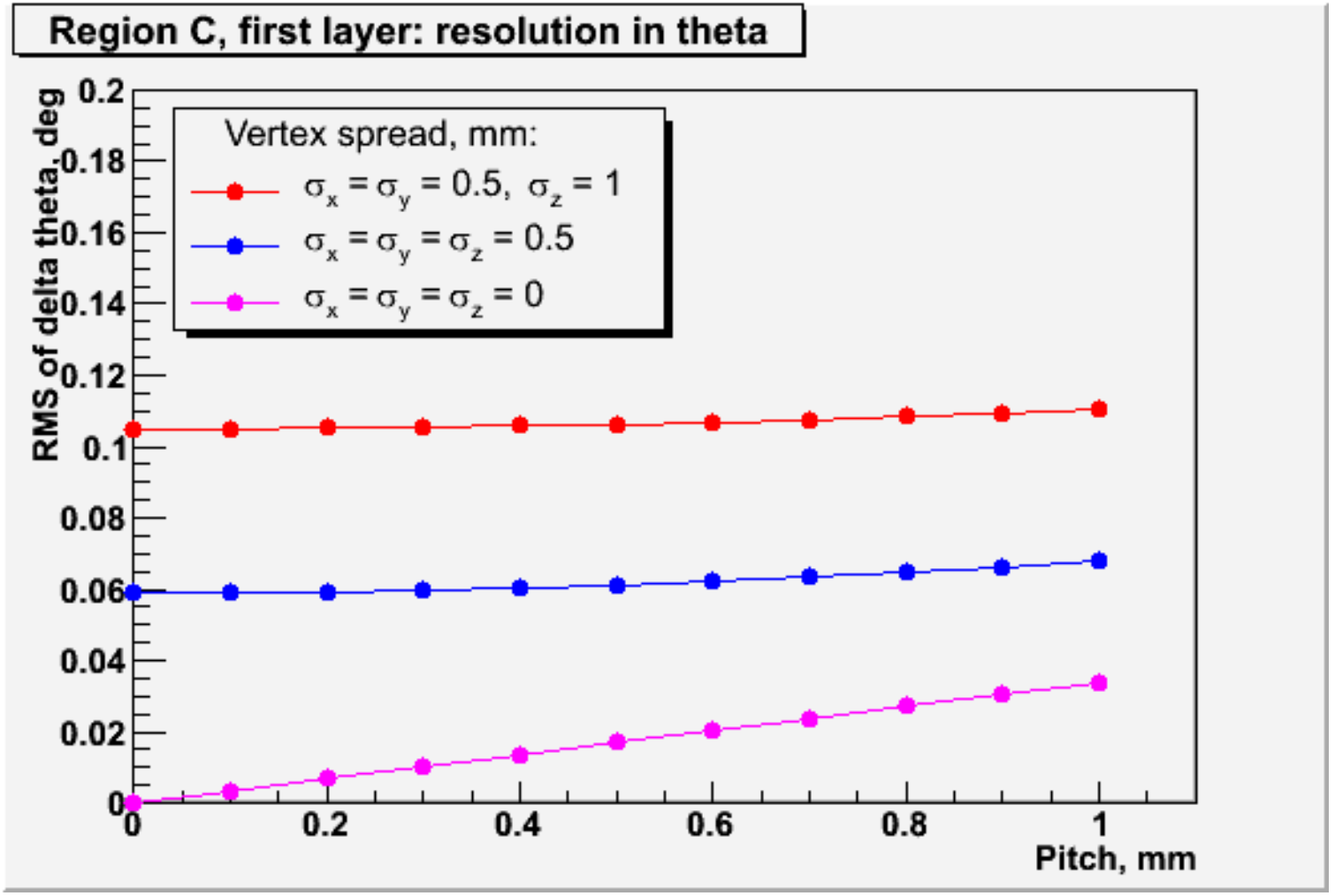


Angular Resolution



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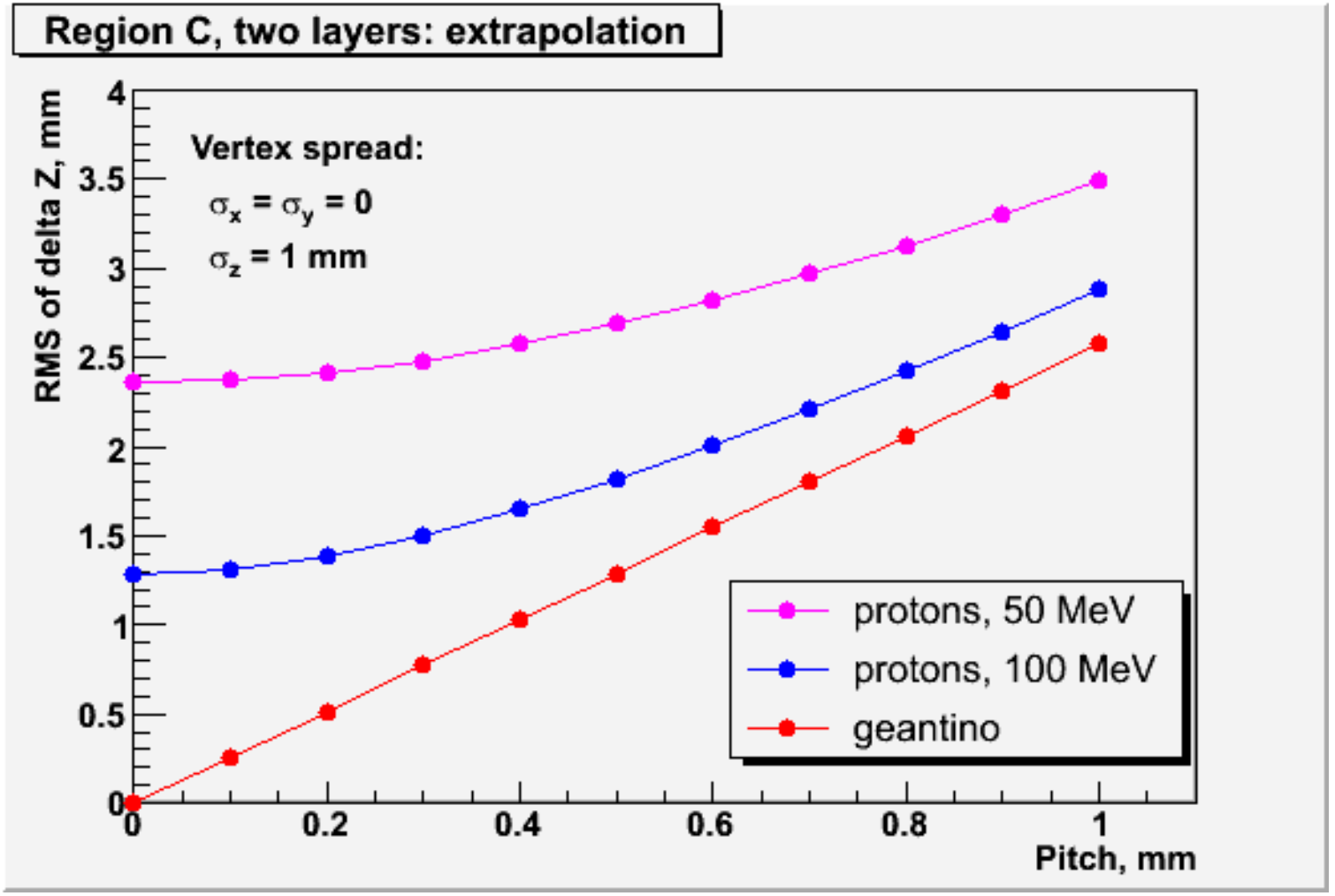

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