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## Neutron-rich nuclei studied in the $^{136}\text{Xe} + ^{208}\text{Pb}$ deep-inelastic reaction

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A deep-inelastic reaction experiment with a  $^{136}\text{Xe}$  beam impinging on a  $^{208}\text{Pb}$  target was performed. Gamma rays were detected with the AGATA demonstrator. The beam-like fragments were identified with the PRISMA spectrometer on even-by-event basis. The DANTE heavy ion detector array was also used, with the aim of increasing the overall statistics of the reaction.

Doppler corrected gamma-ray spectra were obtained for both the identified beam-like nuclei and for the target-like binary partners. Preliminary results will be presented.

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