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High resolution gamma-ray spectroscopy of Exotic nuclei.

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The AGATA (Advanced GAmma Tracking Array) γ-ray array [1] has been celebrating its first ten years of data taking all over Europe. Thanks to its unprecedented position and energy resolution combined with state-of-the-art complementary instrumentation, AGATA has allowed to pave the way towards high precision spectroscopy measurements in exotic nuclei, thus providing a wealth of structural information far away from the stability line

Recently, the array has made its comeback to the Legnaro National Laboratories (LNL, Italy), where it is expected to be used both with stable and post-accelerated radioactive beam produced by the SPES facility. The first campaign of AGATA at LNL started in Spring 2022 [2] with stable beams and AGATA coupled to the PRISMA large acceptance spectrometer and additional charged particle detectors. In this talk, a review on the achievements in nuclear structure physics and future physics campaigns with the γ-ray tracking AGATA will be presented.

[1] A. Akkoyun et al., NIM A 668, 26 (2012).

[2] J.J. Valiente Dobon et al, In preparation

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