

## **Nuclear spectroscopy with the gamma-ray tracking array AGATA at LNL.**

*Tuesday, 10 May 2022 09:00 (30 minutes)*

Nuclear spectroscopy, that has a large tradition at the Laboratori Nazionali di Legnaro, has shown in the last decades its huge potential to scrutinise the nuclear Hamiltonian. Thanks to the methods of  $\gamma$ -ray spectroscopy it has been possible to test such interaction in nuclei at very high spin and with large isospin values (exotic nuclei). The continuous improvement in germanium  $\gamma$ -arrays performances has allowed an enormous increase of the experimental sensitivity. The current forefront in  $\gamma$ -ray detection is the detector AGATA which is based on the new concept of gamma-ray tracking. In this presentation a review on the past achievements in nuclear spectroscopy as well as near future perspectives with the AGATA array at LNL will be discussed.

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