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Fission fragments spectroscopy at LNL with AGATA-PRISMA: Insights into the magicity of ^{78}Ni .

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The development of a new ^{238}U beam at LNL opens up new possibilities to study the structure of the yrast excited states of neutron-rich nuclei in the vicinity of ^{78}Ni . The focus is to study the states resulting from the coupling of the inert-core excited states and the valence protons in $N = 50$ isotones of ^{82}Ge , ^{81}Ga and ^{80}Zn .

Already widely studied during the AGATA-VAMOS campaign at GANIL, a gap in statistics (factor ~ 10) is mandatory to open the door to new insights in this mass region. The way to obtain it using the coupling of AGATA and PRISMA, and the relevance of such experiment will be discussed in this talk.

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