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Search for E1 extra strength below giant dipole resonance

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The question of the properties of the E1 strength below the Giant Dipole Resonance (GDR) is of paramount interest for the understanding of the nuclei, for testing theoretical models and has important implications in astrophysics. The dependance of this additional strength in function of Neutron number, isospin, temperature and angular momentum is mostly unexplored. A series of experiments addressed this questions in the isotopic chain in Ni (and Fe) isotopes going from the N=Z 56Ni up to the exotic nucleus 70Ni also from zero to finite temperature. The measurements were done in different laboratories, like GSI (D), RIBF (J), LNL (I) and in the last years in the two EuroLABS facilities IFIN-HH (Ro) and CCB (Pl).

Confirmed and preliminary new results will be discussed.

Primary author: WIELAND, Oliver (INFN sezione di Milano)

Presenter: WIELAND, Oliver (INFN sezione di Milano)

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