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Measurements of giant and pygmy resonances with the K600 spectrometer at iThemba LABS

Tuesday, 4 September 2018 17:00 (20 minutes)

iThemba LABS, South Africa, is a suitable laboratory for the experimental study of giant and pygmy resonances. The K600 magnetic spectrometer is one of the few spectrometers in the region of 30-200 MeV with high-energy resolution and the ability to perform measurements at zero degrees. This capability enabled the study of the fines structure in giant resonances and the role of deformation in these collective modes. In addition, the recent developments of coincidence measurements of charged particle and γ-ray decays is a perfect combination to investigate the nature of the pygmy dipole resonance and in general broad excited structures in detail.
Results on the experiments conducted at iThemba LABS on giant and pygmy resonances will be shown.

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Session Classification: Nuclear Structure and Dynamics (SALONE BOLOGNINI)