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Opportunities in nuclear science and applications at iThemba LABS

iThemba LABS has embarked on an extensive renewal and enhancement program with the ultimate aim to provide our users with competitive and state-of-the air research facilities for nuclear physics experiments. During the presentation I will provide an overview of the facilities of the Department of Subatomic Physics at iThemba LABS. In particular, I will focus on the latest developments to improve the high-energy neutron beam facility, the K600 spectrometer and the status of the ALBA and AFRODITE gamma-ray arrays. I will highlight some of the ongoing and future measurements which are possible with the improved detection systems. These measurements include, but are not limited to, the pygmy and scissors resonances, gamma-decay from giant resonances, photon strength functions and electron spectroscopy.

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