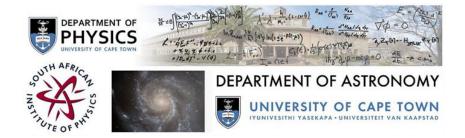
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Spectroscopy of the low-lying excitation region in ⁹B

Tuesday, 5 July 2016 11:10 (20 minutes)

Abstract content
 (Max 300 words)
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The structure of A=9 nuclei are relevant in nuclear astrophysics. The measurement of the low-lying excited states in Boron-9 nucleus through the ⁹Be(³He,t)⁹B reaction, with the K600 spectrometer in conjunction with a segmented silicon detector array will be performed at iThemba LABS facility. Of particular interest is the conclusive observation and characterisation of the first 1/2⁺ state in Boron-9. By accurately measuring the excitation energy of this state, we aim to obtain the Coulomb Energy Difference (CED) between isobaric analog 1/2⁺ states in the Boron-9 and Beryllium-9 mirror pair to address discrepancies that currently exist between theoretical models in describing these nuclei.

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