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Physics with the K600 at iThemba LABS

The K=600 magnetic spectrometer at iThemba LABS is a high resolution kinematically corrected magnetic spectrometer for light ions. It has been used in nuclear reaction and structure studies since its installation in 1994. Over the years its capabilities has been expanded and it now has the capability to measure inelastically scattered particles and reactions at extreme forward angles that includes zero degrees, making it one of only two facilities worldwide (the other being at RCNP, Japan) where high energy resolution is combined with zero degree measurements at medium beam energies. The advantage of such measurements is the selectivity it provides to excitations with low angular momentum transfer. The recent addition of coincident particle and gamma detection capabilities further enhances the selectivity of the K=600 magnetic spectrometer, and opens up a host of new opportunities to be explored, some of which will be discussed in more detail.

Notes

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