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Direct Reactions and Decay Spectroscopy using the MSU High Resolution Array

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The High Resolution Array (HiRA) constructed as a collaborative effort between Washington University, St. Louis, Indiana University, Bloomington and INFN, Milano, Italy has been used successfully in several direct reaction decay spectroscopy experiments with exotic beams. This talk will review and discuss the physics of some of measurements performed with this array. These include programs in transfer reactions with inverse kinematics using Ar and Ni isotopes, single and multi-particle-decay spectroscopy, knockout reactions, and astro-physically important mass measurements. Special emphasis will be placed on new results. This work is supported by the National Science Foundation under Grant No. PHY-1102511.

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