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Large Acceptance Multipurpose Spectrometer at RISP

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The Rare Isotope Science Project (RISP) was established in December 2011 in order to carry out the technical design and the establishment of the accelerator complex for the rare isotope science in Korea. The rare isotope accelerator at RISP will provide both stable and rare isotope heavy-ion beams with the energy ranges from a few MeV/nucleon to a few hundreds of MeV/nucleon for the researches in fields of basic and applied science. Large Acceptance Multipurpose Spectrometer (LAMPS) at RISP is a heavy-ion collision experimental facility for studying nuclear symmetry energy by using rare isotope beams. Two different experimental setups of LAMPS are designed for covering entire energy range at RISP. One is for a low energy (< 18.5 MeV/nucleon) heavy-ion collision experiment for day-1 experiments. The other is for completing an event reconstruction by detecting the all particles produced from high energy heavy-ion collisions within large acceptance detector to measure particle spectrum, yield, ratio and collective flow of pions, protons, neutrons, and intermediate fragments at the same time. In this talk, the detail physics and design of LAMPS at RISP will be discussed.

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