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Studies of nuclear equation of state with the HIRFL-CSR external target experiment (CEE)

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The HIRFL-CSR external-target experiment (CEE) will be the first large-scale nuclear physics experiment working at GeV/u energy regime in China, providing new opportunities to the studies of nuclear equation of state. The construction of the whole spectrometers is in good progress, most of the design parameters of the detector are fixed. Based on these parameters, we have conducted the fast simulations of the detector performance and the responses to various physical observables, using GEANT 4 to track the charged particles produced by UrQMD transport model as the event generator. The design, construction status and performance expectations of CEE, as well as the feasibility of the studies of nuclear EOS are introduced in this talk.

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