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The AsyEOS S394 experiment at GSI: first preliminary results

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The AsyEOS Collaboration aims at improving the knowledge of the asymmetry part of the nuclear equation of state. The purpose of the recent experiment S394, performed at GSI in May 2011, is to determine the behaviour of the asymmetry potential at supra-saturation density, using the ratio of the strengths of the elliptic flow of neutrons with respect to that of protons in heavy-ion reactions at relativistic energy. The method, the motivations and the experimental set-up will be presented, along with the most recent results, which quality is promising.

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