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Plans for symmetry energy research in INDRA-FAZIA

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Since 2020 the FAZIA detector performs experiment at GANIL coupled with the large acceptance INDRA array. This combined detector for charged reaction products represents one of the most advanced tools to study the details of the reaction mechanisms at the Fermi energies, with special attention to the role of the symmetry energy term of the EOS. The combinations of beams and energies available at GANIL or at similar facilities allow to mainly investigate systems formed at high temperatures and at relatively low densities. The experimental and theoretical community investigating the EOS is recently focussing the interest on suprasaturation densities, achievable with beam energies above 100 A MeV, where the EOS parameters are much less constrained and the experimental data are relatively scarce. In the talk I will shortly present the mid-term programs of the FAZIA-INDRA collaboration towards possible experiments at higher beam energy facilities as RAON and FRIB.

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