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The ASY-EOS experiment at GSI: investigating symmetry energy at supra-saturation densities

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In May 2011 the ASY-EOS (S394) experiment was carried out at GSI; main aim was to measure the flows of neutrons and light charged particles in order to investigate symmetry energy of the nuclear equation of state at densities above the saturation one.

The $^{197}\text{Au}+^{197}\text{Au}$, $^{96}\text{Ru}+^{96}\text{Ru}$, and $^{96}\text{Zr}+^{96}\text{Zr}$ collisions at 400 MeV/nucleon were measured by using the Large Area Neutron detector, four double-rings of the forward part of the CHIMERA multi-detector, the ALADIN ToF-Wall, the KRATTA Si-CsI triple-telescope array and the Microball detectors.

Status of the data analysis and future possibilities will be discussed.

[1] P. Russotto et al., Phys. Lett. B 697 (2011) 471.

[2] P. Russotto et al., EPJA 50, (2014) 38.

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