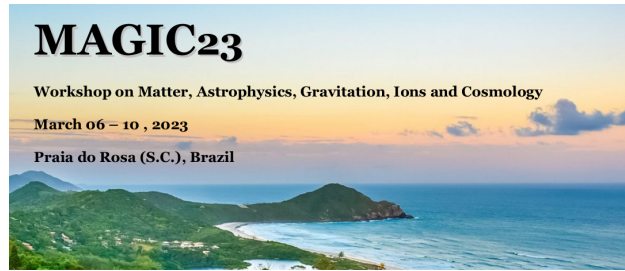


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Equation of state of nuclear matter; applications in astrophysics and heavy ion physics

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An equation of state (EoS) of the hot and dense nuclear matter is derived from the S-matrix formulation of statistical mechanics and observed high-energy hadron scattering data. The EoS shows a local minimum with negative temperature (super-cooling) with observable effects in astrophysics and/or heavy ion collisions.

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