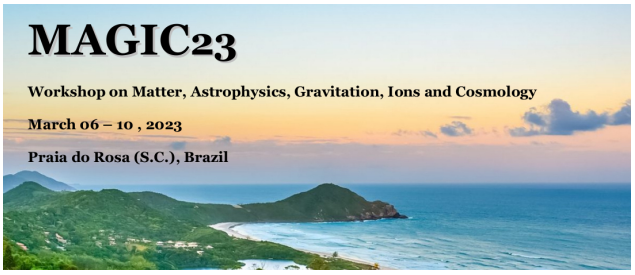

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CSS parametrization: a case study

In this contribution we combine the quark matter CSS parametrization (constant speed-of-sound) with the MIT bag model in order to verify the stiffness impact of the EoS of twin stars on the speed of sound within Seidov's condition. Our preliminary results for the mass-radius relations indicate as expected a correlation between the stiffness of twin stars and sound velocity determined by the medium's compressibility, composition and density, the characteristic phenomenon of wave compression propagation, typical in liquid and gases. In conclusion, the sound velocity may represent an additional signature and a constraint for modeling the EoS of a twin star and compact stars in general.

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