

Why could 3- flavor strange matter be “superluminal”?

Friday, 12 May 2017 11:00 (30 minutes)

The strangeon (strange nucleon) matter is sometimes denounced for “superluminal” due to its stiff matter state. However, in this paper, we obtain a new expression of sound speed with the method in control theory, and show that even in such stiff matter, the signal propagation speed is still less than speed of light. Then, the “superluminal” problem no longer exists, and the pulsar can naturally be strangeon star.

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Track Classification: SMFNS2017