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Numerical modelling of compact static stars in Minimal Dilatonic Gravity

Friday 29 April 2016 14:20 (20 minutes)

The minimal dilatonic gravity (MDG) is a theory, which is locally equivalent to the f(R) theories of gravity and gives an alternative description of the effects of dark matter and dark energy. In this talk we report the progress on modelling relativistic static spherically symmetric stars in MDG under different equations of state (EOS) of neutron matter and we discuss the dependence of the star structure on the mass of the scalar dilaton.

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