

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

What does SN1987A say about extra dimensions? SATHEESHKUMAR VEERAHANUMAK, Baylor University, P.K. SURESH COLLABORATION, P.K. DAS COLLABORATION — There has been a tremendous progress in the last decade in our efforts to confront the String-inspired ideas with experiments or observations. There are two approaches to this problem. One is to use the LHC data and other is to use astronomical data. Among the latter, using SN1987A data for placing the constraints on the models of extra dimensions is very popular. In this poster, we consider all the possible energy loss mechanisms of SN1987A and study the constraints they place on the number and size of extra dimensions and the higher dimensional Planck scale in the ADD scenario.

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Date submitted: 10 Nov 2009

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