



Contribution ID: 412

Type: **Parallel contribution**

String Landscape and Supernovae Ia

Friday, 12 August 2011 16:40 (20 minutes)

If the string landscape has any validity, the universe has in the past and should in the future make transitions to other local (or absolute minima). A prime model for the physics of a future universe is the zero vacuum energy minimal supersymmetric standard model or one of its variations with all susy breaking terms put to zero. If we assume that this transition is accelerated in dense matter, some aspects of supernovae Ia which are challenging to the standard accretion picture can be naturally explained.

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Session Classification: Field and String Theory

Track Classification: Field and String Theory