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# KMI-Theory Seminar

Monday, July 30, 2012

5:00 pm, KMI Science Symposia (ES-635)

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## “A Stringy Mechanism for A Small Cosmological Constant”

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### Abstract:

We consider a property of the probability distribution of stringy landscape. Based on the probability distribution of products of random variables, we propose a simple stringy mechanism that prefers the meta-stable vacua with a small cosmological constant. We illustrate the mechanism with a model in type IIB string theory. As a result of the random variables motivated by stringy landscape, we argue that the generic probability distribution typically peaks at the zero value of the cosmological constant, though the suppression in the model is modest.