

# Seminar

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## Problems and prospects of the IIB matrix model

Monday, July 9, 2018

at 09:10 h

ESI, Boltzmann Lecture Hall

**Abstract:**

The IIB matrix model is one of the promising candidates of the constructive definition of string theory. In this talk, we start with explaining the basic idea and the definition of the model. We then discuss the problems and the prospects of the model such as

- 1) ambiguities in the definition,
- 2) what the matrices stand for,
- 3) how the space-time emerges,
- 4) origin of the diffeomorphism invariance,
- 5) relation to the multiverse and the naturalness.

H. Steinacker

July 4, 2018