



Contribution ID: 75

Type: **not specified**

M-theory and the birth of the Universe

Friday 11 December 2020 12:20 (20 minutes)

The IIB matrix model has been suggested as a particular formulation of nonperturbative superstring theory (M-theory).

It has now been realized that an emerging classical spacetime must reside in its large-N master field.

The master field of the Lorentzian IIB matrix model can, in principle, give rise to the regularized-big-bang metric of general relativity.

The length parameter of the regularized-big-bang metric is then calculated in terms of the IIB-matrix-model length scale.

Primary author: KLINKHAMER, Frans

Presenter: KLINKHAMER, Frans

Session Classification: Contributed talks