## Progress on Old and New Themes in cosmology (PONT) 2020



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## M-theory and the birth of the Universe

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The IIB matrix model has been suggested as a a particular formulation of nonperturbative superstring theory (M-theory). It has now been realized that an emerging classical spacetime must

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.

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