

## Matrix Model for Superstring/M-theory



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### Standard Model from IIB Matrix Model

*Friday, December 5, 2025 9:00 AM (1 hour)*

Interpreting the matrices in the IIB matrix model as representing momentum space, the matrices are described by bilocal fields. Consequently, the IIB matrix model becomes a pregeometric action describing a system that includes gravity. From this perspective, we discuss the possibility that the Standard Model emerges as the effective theory at low energies.

This talk is based on joint work with P.-M. Ho, W. Piensuk, and W.-H. Shao.

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**Session Classification:** Session