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Topological recursion and irregular conformal block via Painleve and WKB

Abstract: We will compare topological recursion and irregular conformal blocks, focusing on the Painlevé I equation. If time permits, we will also discuss a relation between the Heun accessory parameter with irregular singularities and the Voros periods.

This talk is based on joint work with N. Iorgov, O. Lisovyy, and Y. Zhuravlov (arXiv:2505.16803), as well as ongoing joint work with H. Nagoya and A. Shukuta.