Analytic Langlands correspondence for complex curves

Edward Frenkel
University of California, Berkeley

Abstract: I will start the lecture with a brief introduction to various flavors of the Langlands correspondence. I will then explain the setup of a new flavor: the analytic Langlands correspondence for complex curves which was recently formulated by Pavel Etingof, David Kazhdan, and myself (see arXiv:1908.09677, 2103.01509, and 2106.0524). It can be interpreted in terms of a quantum integrable system, which is obtained by "doubling" the celebrated quantum Hitchin system.

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