RESEARCH INSTITUTE FOR MATHEMATICAL SCIENCES

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Higgs bundles for the Geometric Langlands correspondence

Wednesday, December 5, 2018 12:00 PM (1 hour)

We present current joint work with Donagi and Pantev, on the construction of some local systems entering into the geometric Langlands correspondence, by constructing the corresponding parabolic logarithmic Higgs bundles. We look at the case of a compact genus 2 curve. The key feature, as predicted by the program of Donagi and Pantev, is that the spectral variety of the Higgs bundle on Bun is identified with a blow-up of the Hitchin fiber.

Presenter: SIMPSON, Carlos