

Complex K-theory of Dual Hitchin Systems

mardi 13 juillet 2021 15:00 (1 heure)

Let G and G' be Langlands dual reductive groups (e.g. $SL(n)$ and $PGL(n)$). According to a theorem by Donagi-Pantev, the generic fibres of the moduli spaces of G -Higgs bundles and G' -Higgs bundles are dual abelian varieties and are therefore derived-equivalent. It is an interesting open problem to prove existence of a derived equivalence over the full Hitchin base. I will report on joint work in progress with Shiyu Shen, in which we construct a K-theoretic shadow thereof: natural equivalences between complex K-theory spectra for certain moduli spaces of Higgs bundles (in type A).

Summary

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