



Contribution ID: 32

Type: **not specified**

Derived equivalences from a duality of non-abelian GLSM's

Friday 1 July 2016 10:30 (25 minutes)

Joint work with Ed Segal. Producing examples of non-isomorphic varieties X and Y with equivalent derived categories is in general hard. A technique involving LG models and variation of GIT stability has recently proved to be a powerful way of obtaining such examples. Kentaro Hori has proposed an duality between different non-abelian gauged linear sigma models. One consequence of this duality is the equivalence of the category of B-branes associated with the dual GLSM's. We prove this predicted categorical equivalence. Combining this with the LG/VGIT techniques we can then find new examples of varieties X, Y , (geometrically described as linear sections of Pfaffian varieties) which have equivalent (or closely related) derived categories. Joint work with Ed Segal. For background, see e.g. Addington, Donovan, Segal [arXiv:1401.3661] and Hori [arXiv:1104.2853]

Summary

Presenter: RENNEMO, Jørgen (Oxford)

Session Classification: Plenary session