



*Institute of Mathematical Research  
Department of Mathematics*

## **GEOMETRY SEMINAR**

# **Contractible stability spaces and faithful braid group actions**

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### **Abstract**

We show a class of contractible stability spaces. In particular, we are interested in the Calabi-Yau- $N$  categories associated to Dynkin quivers. Their contractible stability spaces admit Frobenius structure, due to recent work of Ikeda and Bridgeland-Qiu-Sutherland. Moreover, we prove that there are faithful braid group actions on these categories, which generalizes results of Seidel-Thomas and Brav-Thomas. This is a joint work with Jon Woolf.

Date: March 17, 2015 (Tuesday)

Time: 4:00 – 5:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

*All are welcome*