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Representation and Number Theory Seminar

Tits Cone Intersections and Applications

by

Professor Michael Wemyss
University of Glasgow

Abstract:

In the first half of the talk, I will give an overview of Tits cone intersections, which are structures that can be obtained from (possibly affine) ADE Dynkin diagrams, together with a choice of nodes. This is quite elementary, but visually very beautiful, and it has some really remarkable features and applications. In the second half of the talk I will highlight some of the applications to algebraic geometry in dimension two and three, including 3-fold flopping contractions, through mutation and stability conditions. This should be viewed as a categorification of the first half of my talk. Parts are joint work with Osamu Iyama, parts with Yuki Hirano.

Date : May 11, 2021 (Tuesday)

Time : 3:00pm – 4:00pm (Hong Kong SAR)

Zoom link :

<https://cuhk.zoom.us/j/97838822137?pwd=ZTVvSC9abmNjR3RCcS9FTzJNTVhXdz09>

Meeting ID: 978 3882 2137

Passcode : sesame

All are Welcome