

數學系 香港中文大學

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## Representation and Number Theory Seminar

## The center of the small quantum group: dimension, gradings and symmetries

*by* 

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## **Abstract**

We will consider the recent developments in the study of the structure of the center (and higher Hochschild cohomologies) of the small quantum group associated to a simple Lie algebra g and a root of unity q. The results relating this structure with the geometry of the group G lead to a lower bound for the dimension of the center, which conjecturally provides an equality in type  $A_n$ .

Date: 18 April 2023 (Tuesday)

Time : 4:00pm - 5:30pm

ZOOM :

https://cuhk.zoom.us/j/98406698458?pwd=ejBFQXBTdDU2bTNFZnZhaUlNMHJUdz09

Meeting ID : 984 0669 8458

Passcode: sesame