

**ARTHUR'S MULTIPLICITY FORMULA FOR (SPECIAL)
ORTHOGONAL AND UNITARY GROUPS VIA THETA LIFTS**

Speaker: Jialiang Zou
National University of Singapore

Time: Thu, Dec. 14, 15:00-16:00

Venue: Tencent Meeting: 356 818 590 Password: 123456

Abstract: Based on a result of J-S Li on global theta lifts in the stage range, Gan-Ichino established a multiplicity formula for the generic part of discrete spectra for metaplectic groups by transporting the multiplicity formula of quasi-split special orthogonal groups. In this talk, I will describe how to use this idea to obtain the same results for (special) orthogonal and unitary groups. Moreover, by enhancing this method, we also obtain a multiplicity formula for the full discrete spectra of (special) orthogonal or unitary groups with Witt index less or equal to one. This talk is based on joint work with Rui Chen.