National Center for Theoretical Sciences

Workshop on **Representation Theory** and Lie Groups

Date 2024/12/11-14

Venue R515 Cosmology Bldg., NTU+ Online

Aim & Scope

Representation theory of Lie groups studies spatial symmetries of vector spaces and is deeply connected to areas like harmonic analysis, noncommutative geometry and number theory. Notable advances include the orbit philosophy, which links orbit spaces to the unitary dual, and the Langlands program, connecting automorphic representations with number theory. In this workshop, we will cover various aspects of representations of reductive groups over local fields, such as unitary dual, branching problems and questions related to the Langlands program.

Invited Speakers

Jeffrey Adams	University of Maryland
Dan Barbasch	Cornell University
Dan Ciubotaru	University of Oxford
Jing-Song Huang	The Chinese University of Hong Kong, Shenzhen
Toshiyuki Kobayashi	University of Tokyo
Ruben La	University of Hong Kong
Jia-Jun Ma	Xiamen University
Kyo Nishiyama	Aoyama Gakuin University
Emile Okada	National University of Singapore
Yoshiki Oshima	University of Tokyo
Shu-Yen Pan	National Tsing Hua University
Pavle Pandzic	University of Zagreb
Birgit Speh	Cornell University
Cheng-Chiang Tsai	Academia Sinica
Chen-Bo Zhu	National University of Singapore

Organizers

Kei Yuen Chan	University of Hong Kong
Shu-Yen Pan	National Tsing Hua University
Wan-Yu Tsai	National Central University
Kayue Daniel Wong	The Chinese University of Hong Kong, Shenzhen

Contact **Peggy Lee** peggylee@ncts.tw

Event Website