Lie Groups and Representation Theory Seminar at the University of Tokyo

リー群論・表現論セミナー

DATE   Nov 30 (Tue), 2021, 17:00–18:00

PLACE   Online

SPEAKER   **Quentin Labriet** (Reims University)

TITLE   Branching problems for conformal Lie groups and orthogonal polynomials.

ABSTRACT   In this talk, I will present some results obtained during my PhD about a link between branching problems for conformal Lie groups and orthogonal polynomials. More precisely, I am going to look at some examples of branching problems for representations in the scalar-valued holomorphic discrete series of some conformal Lie groups. Using the geometry of symmetric cone, I will explain how the theory of orthogonal polynomials can be related to branching problems and to the construction of symmetry breaking and holographic operators.