

Mathematics Colloquium

**Atsushi Ichino**

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**Periods of Automorphic  
Forms and Special  
Values of  $L$ -Functions**

*Abstract: A period of an automorphic form on a reductive group  $G$  over a number field is defined by its integral over a subgroup  $H$  of  $G$ . Such periods are often related to special values of automorphic  $L$ -functions. In this talk, we present a conjecture in the case of special orthogonal groups, which can be regarded as a refinement of the global Gross-Prasad conjecture about the restriction of automorphic representations of  $SO(n+1)$  to  $SO(n)$ . We also discuss some examples and a relation to endoscopy. This talk is based on separate joint works with Wee Teck Gan and Tamotsu Ikeda.*

**Wednesday, February 18**

**4:00-5:00 pm  
204 Smith Hall**