

Pacific Institute for the  
Mathematical Sciences

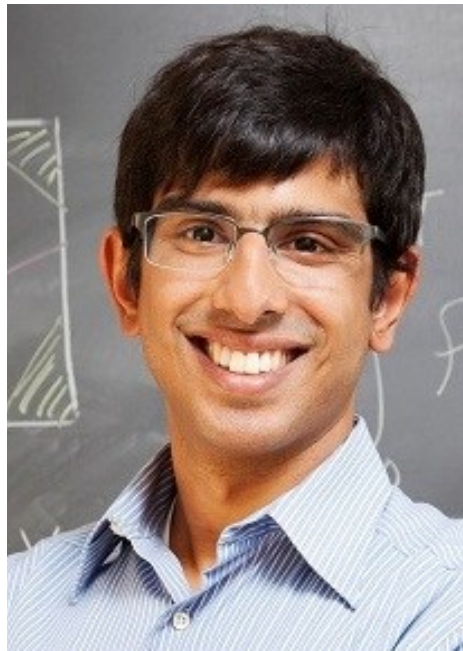
# PIMS Distinguished Speakers Series

## JAYADEV ATHREYA

**Associate Professor of Mathematics**

**University of Washington**

**Director of Washington Experimental Lab**



### **Title:** Geodesics on Platonic Solids

*The talk will be elementary and accessible to undergraduates.*

**Abstract:** In joint work with David Auricino and Pat Hooper, we study the problem of finding closed geodesics passing through exactly one vertex on the surfaces of Platonic solids. We show that there are no such trajectories on any of the solids except the dodecahedron, on which there are 31 equivalence classes of such trajectories.

**Bio:** Jayadev Athreya is an Associate Professor of Mathematics at the University of Washington, and the founder and Director of the Washington Experimental Mathematics Lab (WXML). His research is on geometry, dynamics, and connections to number theory. He is passionate about deepening people's involvement in mathematics, and via the WXML facilitates undergraduate research, public engagement, and mathematical fabrication in Seattle and throughout the Pacific Northwest. He was previously at the University of Illinois, where he founded and directed the Illinois Geometry Lab.

**Friday—March 8, 2019**

**12:00 to 12:50 pm**

**B650**

**\*\* LUNCH PROVIDED \*\***