

Science Exploration Series

University of Notre Dame
Department of Mathematics

Speaker: David Galvin

University of Notre Dame

Will give a lecture entitled

Envy-Free Division

Date: Saturday, November 10, 2018

Time: 1:00 PM

Location: 101 Jordan Hall

Departmental Tea: Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.



Abstract:

David Galvin, associate professor of mathematics, will teach you how to cut up a cake so that no one is envious of someone else's portion. He'll also answer a roommate question: Can three people who have just leased a three-bedroom apartment assign rooms to rent, so that no one feels like someone else has gotten a better deal? These questions have many hard-to-quantify factors. Learn an envy-free division process that's easy to implement, and answers these and many related questions. It was discovered by Forest Simmons and Francis Su about 20 years ago, but has its roots in a 90-year-old result in topology.