



Mathematics Department Seminar

The Futurama Theorem

Dr. Dana C. Ernst
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Hyde Hall Room 318

Wednesday, December 7 at 4:30-5:30PM

Pizza and refreshments during talk

Abstract: In the episode “The Prisoner of Benda” of the television show Futurama, Professor Farnsworth and Amy create a mind-switching machine, only to afterwards realize that when two people have switched minds, they can never switch back with each other. Throughout the episode, the Professor, with the help of the Globetrotters, try to find a way to solve the problem using two or more additional bodies. The solution to this problem is now called the Futurama Theorem, and is a real-life mathematical theorem, invented by Futurama writer Ken Keeler, who holds a PhD in applied mathematics. In this talk, we will introduce the mathematics behind the Futurama Theorem and present its proof.