

## SEMINÁRIO

# Central Results from Newton's Principia Mathematica

#### **Josef Bemelmans**

**RWTH Aachen, Germany** 

Introduced by Hugo Beirão da Veiga Univ. Pisa, Italy

#### I. The Body of Least Resistance

Newton solves a variational problem about 10 years before the curve of quickest descent was found, a topic that is regarded to be the beginning of modern calculus of variations.

### II. The Force of Attraction of a Spherical Body

First the geometrical proof of this theorem is analyzed; then it is indicated that this result demonstrates the definitive role of mathematics in modern natural philosophy.

#### **28 February 2018**

16:00 - 18:00

Instituto Superior Técnico, Campus Alameda Departamento de Matemática Sala 3.10



