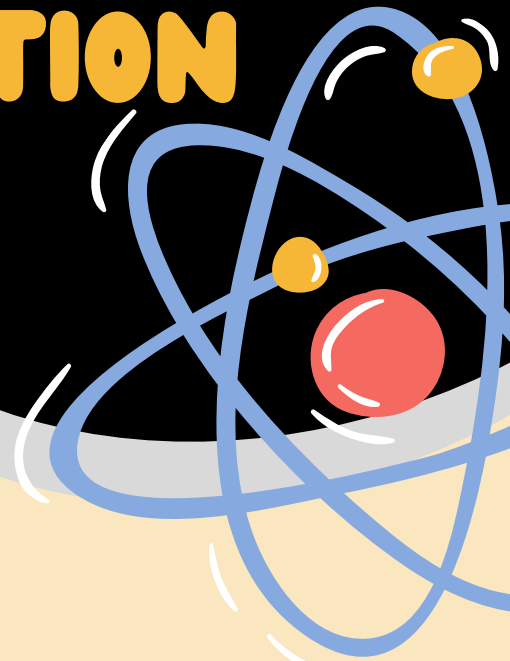


# THE FORCE OF CREATION

## PHYSICS COLLOQUIUM



**BENJAMIN SCHUMACHER**

**PROFESSOR OF PHYSICS  
AT KENYON COLLEGE**

The force of gravity is weak, weird, and cosmically consequential. No feature of gravity is stranger -- or more significant -- than its paradoxical relationship to temperature and entropy. An ordinary object, when energy is added to it, warms up; but a gravitational system can actually get colder. This odd fact has implications for everything from the orbital decay of satellites, to the existence of dark matter, to the formation of stars and galaxies, to black holes and the fundamental link they reveal between information and geometry.



**WOOSTER**  
Physics

**TUESDAY, SEPTEMBER 16<sup>TH</sup>**

**AT 11:00AM**

**TAYLOR HALL 111**