



United Nations
Educational, Scientific and
Cultural Organization



ICTP - East African Institute
for Fundamental Research
under the auspices of UNESCO

Science/Maths Seminar

Paradoxical Games and Brownian Motors

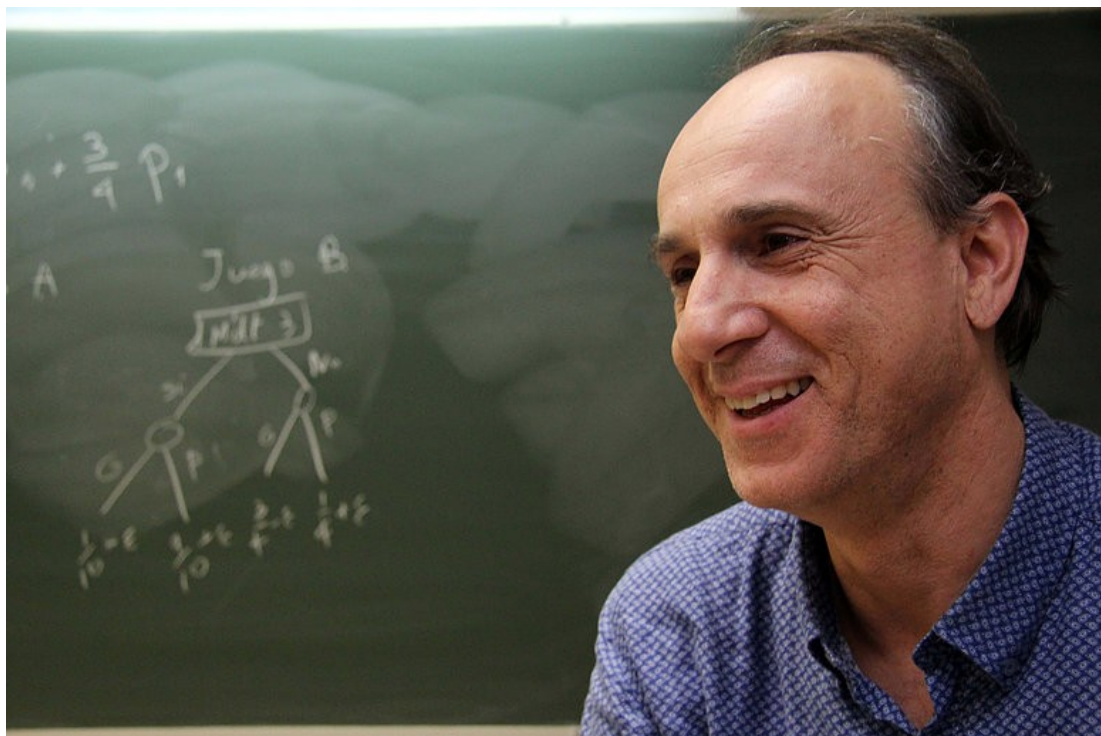
Speaker: Prof. Juan M.R. Parrondo (Universidad Complutense de Madrid, Spain)

Date and time: **Tuesday, 16 August 2022 at 16:00 HRS (GMT+2)**

Physical venue: **EAI FR Conference Hall (Top Floor)**

Zoom Meeting ID: 869 3793 5728 [Passcode: 549989](#)

<https://us02web.zoom.us/j/86937935728?pwd=V1J5ak43bk5JZkZhY3RSdkNwOER3UT09>



Abstract:

Two losing gambling games result in a winning game when played in an alternating sequence. This is the formulation of the so-called paradoxical games. In this talk, I will review this paradox by presenting the original formulation and its relationship with Brownian ratchets, simple systems based on asymmetric potentials that are able to rectify fluctuations and have been used as models for nanomotors and molecular motors in biology.

*The seminar will be streamed in the conference hall on EAI FR's top floor
(EINSTEIN Block, former "KIST2" Building, UR-CST, Nyarugenge campus)*

KIST2 Building CST, Nyarugenge Campus, University of Rwanda, Kigali, Rwanda • info@eai fr.org • eai fr.ictp.it



Republic of Rwanda



Ministry of Education

