



**JUNE 10
2019
h 11:00**

Sala Seminari
Centro di Ricerca Matematica
Ennio De Giorgi
Collegio Puteano
Scuola Normale Superiore
Piazza dei Cavalieri, 3
56126 Pisa Italy

Elaborazione a cura del Servizio Comunicazione e Relazioni Esterne | SNS

JOE TRIBBIA

National Center for Atmospheric Research
Boulder, Colorado (US)

The Mathematical Challenges of Earth System Modelling: Is the Earth System almost-intransitive?

The seminar will recount the many modelling challenges that arose in the development of NCAR's latest earth system model, CESM2. A persistent problem region in the development versions of CESM2, has been the Labrador Sea which is important as a source for ocean convection that drives the Atlantic Overturning Circulation. The resolution of this problem in CESM2 suggests that the intrinsic dynamics of CESM2 as a complex system is almost intransitive. This would have significant ramifications for climate science.

This seminar is part of the initiative on climate of the Scuole Universitarie Federate (3CSA)

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