

# Colloquium Thermo- and Fluid Dynamics

**On the idea of us probing planetary interior from their rotation**

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The idea that internal fluid layers should have a signature in planet's rotation is due to J. Hopkins in the middle of the 19th century, motivating the pioneering work of Th. Sloudsky, S. Hough, Lord Kelvin and the celebrated paper of Poincare in 1910. After a brief overview of the fundamentals of rotating fluid, I will illustrate how in modern geophysics we push this idea forward to gain insight about planetary internal structure and dynamics, heat deposition or magnetic field generation.



Date: Wednesday, 6 April 2022

Time: 16:15 - 17:15h

Place: ETH Zurich, ML H 44

Host: Prof. Filippo Coletti, IFD