## Turbulent Energy Transfer in Space Plasmas Workshop Skylab seminar room (1st floor) Ecole Centrale de Lyon in Écully

## Tuesday 29th August

09:30 – 10:00	Arrival and coffee
10:00 – 10:30	Words from the LMFA director (Christophe Bailly) and the ECL research director (Christophe Corre)
10:30 – 11:00	On the open questions involving multi-scale energy transport and dissipation in turbulent space plasmas by Raffaele Marino
11:00 – 11:30	Past, present, and future multi-spacecraft missions: existing tools and future development needs by Rungployphan Kieokaew
11:30 – 12:00	Plasma Observatory mission and its science by Alessandro Retino
12:00 – 13:30	Lunch break
13:30 – 14:00	Phase-mixing as an energy transfer driver toward kinetic scale and heating mechanism in space-plasmas by Francesco Pucci
14:00 – 14:30	Sub-ion-scale turbulence and ion heating: recent results from 3D hybrid-kinetic simulations by Silvio Cerri
14:30 – 15:00	Fast magneto-acoustic wave turbulence by Sebastien Galtier
15:00 – 15:30	Coffee break
15:30 – 16:00	Temporal Properties of Compressible MHD Turbulence and Implications for Particle Transport by Hui Li
16:00 – 16:30	Transport of Alfvénic turbulence in the corona and the solar wind by Victor Réville
16:30 – 17:00	Observation of kinetic scale magnetic turbulence with Solar Orbiter by Matthieu Kretschmar

## Wednesday 30<sup>th</sup> August

09:30 – 10:00	Arrival and coffee
10:00 – 10:30	The HelioSwarm mission and the iESA ion instrument by Benoit Lavraud
10:30 – 11:00	The search-coil magnetometer (SCM) for the HelioSwarm mission by Olivier Le Contel
11:00 – 11:30	Signal to noise requirements for multiple spacecraft measurements by Owen Roberts
11:30 – 12:00	Energy transfer rate estimation by an HelioSwarm-like constellation in an Hall-MHD simulation by Vincent Génot
12:00 – 14:00	Lunch break
14:00 – 14:30	Waves and vortices in stratified MHD turbulence by Claude Cambon

14:30 – 15:00	Spectral properties and energy transfer at kinetic scales in collisionless plasma turbulence by Giuseppe Arro
15:00 – 15:30	Quadratic Magnetic Gradients from 7 SC and 9 SC Constellations by Chao Shen
15:30 – 16:00	Coffee break
16:00 – 16:30	Understanding Collisionless Turbulent Dissipation in Earth's Magnetosheath by Alexandros Chasapis
16:30 – 17:00	Probing Multiscale Turbulent Dynamics in the Era of Magnetospheric Multiscale and Beyond by Julia Stawarz
17:00 – 17:30	Multi-Spacecraft Magnetic Field Reconstructions: A Cross-Scale Comparison of Methods by <i>Theodore Broeren</i>

19:00 The social dinner at the "Brasserie Le Sud" (11 Pl. Antonin Poncet, 69002 Lyon), <a href="https://www.maisons-bocuse.com/nos-brasseries/brasserie-le-sud-lyon-2-bellecour/">https://www.maisons-bocuse.com/nos-brasseries/brasserie-le-sud-lyon-2-bellecour/</a>.

## Thursday 31st August

09:30 – 10:00	Arrival and coffee
10:00 – 10:30	Interplay between Magnetic Reconnection and Current Sheet Instabilities in the Earth's Magnetotail by Giulia Cozzani
10:30 – 11:00	Multipoint Turbulence Analysis with HelioSwarm – application to MMS by Francesco Pecora
11:00 – 11:30	The role of the Kelvin-Helmholtz instability in driving magnetic reconnection and plasma transport: a 3D Hall-MHD study by Silvia Ferro
11:30 – 12:00	Energy transfer in dayside electron diffusion regions by Naïs Fargette
12:00 – 14:00	Lunch break
14:00 – 14:30	Magnetospheric MultiScale Measurements of Energy Balance in Collisionless Plasma by Souhail Dahani
14:30 – 15:00	Electric Field Turbulence in the Magnetosheath: Evaluating Generalized Ohm's Law using MMS by Harry Lewis
15:00 – 15:30	Two classes of magnetotail dipolarization fronts observed by Magnetospheric Multiscale Mission: A statistical overview by Soboh Al-qeeq
15:30 – 16:00	The Fast Lattice-Boltzmann Algorithm for MHD Experiments (FLAME) by Emmanuel Lévêque
16:00 – 16:30	Coffee break
16:30 – 17:30	Splinters