

# 2020 FALL SWT - Discussion Session on Kinetic Turbulence

**SCIENCE SPLINTER: 1pm Eastern, 10am Pacific, 7pm Paris, 2am Tokyo**

**Please contact the following to participate/contribute:** Alexandros Chasapis ([alexandros.chasapis@lasp.colorado.edu](mailto:alexandros.chasapis@lasp.colorado.edu))

**3-min flash talks plus discussion** led by the Chairs

Goal: ID major projects/questions underway and those still to be addressed – Spawn further collaborations

## SESSION NOTES AND LINE UP:

| Order                                    | Speaker                     | Title                                                                                         |
|------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------|
| 0                                        | Session Chairs              | NOTES, Intro                                                                                  |
| <b>I. Kinetic Turbulence</b>             |                             |                                                                                               |
| 1                                        | Alexandros Chasapis         | Results from 2019 Turbulence campaign                                                         |
| 2                                        | Owen Roberts                | Density Fluctuations in the Solar Wind Spacecraft Potential                                   |
| 3                                        | Bill Matthaeus /Yanwen Wang | Survey of Kinetic Dissipation in the Magnetosheath                                            |
| 4                                        | John Dorelli                | Dissipation in collisionless plasmas: What can we learn from MMS?                             |
| 5                                        | Arya S Afshari              | Electron Landau Damping and Wave Energy Flux in the Magnetosheath                             |
| <b>II. Reconnection &amp; Turbulence</b> |                             |                                                                                               |
| 6                                        | Rick Wilder                 | Whistler Waves and Electron-Scale Reconnection in the Turbulent Magnetosheath                 |
| 7                                        | Subash Adhikari             | Magnetic Reconnection as a Turbulent Cascade                                                  |
| 8                                        | Narges Ahmadi               | Electric field Fluctuations in Magnetotail Turbulence                                         |
| 9                                        | Riddhi Bandyopadhyay        | Observation of Inertial-range Energy Cascade within a Reconnection Jet in Earth's Magnetotail |
| 10                                       | Prayash Sharma Pyakurel     | Enhanced Reconnection Rate in Three-Dimensional Electron-Only Reconnection                    |
| 11                                       | Matthew Argall              | Onset of electron-scale turbulence in the reconnection exhaust                                |
| <b>Discussion</b>                        |                             |                                                                                               |

## UPLOAD PRESENTATIONS FOR THIS SESSION HERE:

Changes? reloading the same file name should overwrite the old one.

| File                                                                                               | Modified                             |
|----------------------------------------------------------------------------------------------------|--------------------------------------|
| PDF File Adhikari_MMSSWT_October2020.pdf                                                           | Oct 08, 2020 by Narges Ahmadi        |
| PDF File Afshari_MMSSWT_October2020.pdf                                                            | Oct 08, 2020 by Arya Afshari         |
| PDF File argall_Turbulence-Onset_Virtual-MMS-SWT_8-Oct-2020.pdf                                    | Oct 08, 2020 by Matt Argall          |
| PDF File Chasapis_sw_turb_campaign.pdf                                                             | Oct 08, 2020 by Alexandros Chasapis  |
| Microsoft Powerpoint Presentation Dissipation_MMS.pptx                                             | Oct 08, 2020 by John Dorelli         |
| Microsoft Powerpoint Presentation Matthaeus-MMS_SWT-Turb-Splinter-PiD-theory-8Oct2020-smaller.pptx | Oct 08, 2020 by William Matthaeus    |
| PDF File MMS_SWT_Talk.pdf                                                                          | Oct 01, 2020 by Owen Roberts         |
| Microsoft Powerpoint Presentation Narges_Turbulence_MMS_2020.pptx                                  | Oct 08, 2020 by Narges Ahmadi        |
| PDF File riddhib_tail_cascade_MMS_SWT_Oct08_2020.pdf                                               | Oct 08, 2020 by Riddhi Bandyopadhyay |
| PDF File SWT_splinter_KT_prayash.pdf                                                               | Oct 08, 2020 by Prayash Pyakurel     |
| Microsoft Powerpoint Presentation Yanwen Wang-PiD-survey-MMS_SWT-Turb-splinter-8Oct2020.pptx       | Oct 08, 2020 by William Matthaeus    |

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