

2020 FALL SWT - Discussion Session on Shock Physics

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

Please contact the following to participate/contribute:

Hadi Madanian (hmadanian@swri.edu), Li-jen Chen , Imogen Gingen, Michael Starkey, Mihir Desai, Steven Schwartz

3-min flash talks plus discussion led by the chairs on shock nonstationarity, particle acceleration, ways to improve our understanding of shock processes using model-data comparisons, and other shock processes.

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

SESSION NOTES AND LINE UP:

Order	Speaker	Title
0	Hadi Madanian	Please remember: 5 minutes talk, maximum 3 slides
1	Katy Goodrich	What We Know and What We Don't Know About Shocks.
2	Lynn Wilson	The discrepancy between simulation and observation of electric fields in collisionless shocks
3	Martin Lindberg	Entropy change across quasi-perpendicular shock
4	Imogen Gingell	Connecting Simulations & Observations of Kinetic Structures at the Bow Shock
5	Li-Jen Chen	Solitary magnetic structures (isolated SLAMS): Dynamical origin
6	Drew Turner	Formation of a fast magnetosonic shock
7	Hadi Madanian	What makes a shock layer?
8	Steve Schwartz et al.	Current Sheets in the Earth's Quasi-parallel Magnetosheath
9	Savvas Raptis	Jets downstream of quasi-parallel and quasi-perpendicular bow shock
10	Denny Oliveira	Can interplanetary shock impact angles control magnetospheric ULF wave activity?
11	Tomas Karlsson	Do SLAMS penetrate the bow shock?
12	Shan Wang	MMS observations of 3s ULF waves
13	Naoki Bessho	Kinetic waves and reconnecting current sheets in a quasi-parallel shock

UPLOAD PRESENTATIONS FOR THIS SESSION HERE:

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

File	Modified
Microsoft Powerpoint Presentation Entropy_across_shock_Martin_Lindberg.pptx	Oct 08, 2020 by Martin Lindberg
Microsoft Powerpoint Presentation Gingell_MM S_SWT_2020_sims_and_obs_comparison.pptx	Oct 08, 2020 by Imogen Gingell
Microsoft Powerpoint Presentation Goodrich_MMS_splinter.pptx	Oct 08, 2020 by Kevin Genestreti
Microsoft Powerpoint Presentation MMS-SWT_ulf_waves_shocks.pptx	Oct 08, 2020 by Denny DeOliveira
Microsoft Powerpoint Presentation Raptis_Jets downstream of quasi-parallel and quasi-perpendicular bow shock.pptx	Oct 08, 2020 by Savvas Raptis
Microsoft Powerpoint Presentation Schwartz_MMS_SWT_2020_shock_splinter.pptx	Sep 30, 2020 by Steven Schwartz
PDF File SWT-shock-bessho.pdf	Oct 08, 2020 by Naoki Bessho
PDF File Wilson_MMS_SWT_Efield_Obs_vs_Sim_Oct2020.pdf	Oct 07, 2020 by Lynn Wilson

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