Final (v5) agenda for MMS Community Workshop

21-24 October 2019, "Le Bellevue" Congress Center in Biarritz (France)

Monday 21 October 2019

Time	Duration	Session
08:00	1h'	**REGISTRATION**
09:00	1h30'	HPCA team (*Vague* 1) EPD team (*Vague* 2) FIELDS team (*Vague* 3)
10:30	30'	Coffee Break
11:00	1h30'	HPCA team (*Vague* 1) EPD team (*Vague* 2) FIELDS team (*Vague* 3)
12:30	2h'	Lunch time
14:30	1h30'	Senior Review Committee (*Rhune* 2)
16:00	30'	Coffee Break
16:30	1h30'	MMS SWG (*Rhune* 2)

Tuesday 22 October 2019 (Room: *Rhune* 2)				
Time	**Duration**	**Session**	**Speaker**	**Title**
08:00	50'			**REGISTRATION**
08:50	10'			**Inauguration of the meeting (B. Lavraud)**
09:00	15'	Tail (B. Lavraud)	*Justin Holmes*	Magnetic compression and nonlinear waves at the reconnection separatrix
09:15	15'		*Cecilia Norgren*	Electron acceleration and thermalization at magnetotail reconnection separatrices
09:30	15'		*Anthony Rogers*	Applying Magnetic Curvature to identify thin current sheets relativeto tail reconnection regions
09:45	15'		*Gabor Toth*	Exploring the Dynamics of Sawtooth Oscillations Using the Global Magnetohydrodynamics with Embedded Particle-in-Cell Model
10:00	15'		*Giovanni Lapenta*	Reconnection outflows in the magnetotail: comparing MMS crossings with HPC PIC simulations
10:15	30'			Coffee Break
10:45	15'	Tail (C. Norgren)	*Olivier Le Contel*	MMS/Cluster joint measurements of plasma sheet boundary layer crossings: a case study
11:00	15'		*Richard Denton*	Measuring the magnetic structure velocity for the 11 July 2017 magnetotail reconnection event
11:15	15'		*Sam Bingham*	MMS Observations of the Charge Dependent Energization and Drift Trajectory of Ions During Injections in the Earth's Magnetotail
11:30	15'		*Evgeny Panov*	Broad dipolarization-injection fronts
11:45	15'		*Reiner Friedel*	Substorm injections as seen by MMS and MANY other satellites
12:00	2h			Lunch time
14:00	15'	Tail / EDR (R. Kieokaew)	*Daniel Baker*	Shocks, High Speed Streams, and Sudden Impulses: MMS Studies of Effects on Energetic Particle Properties
14:15	15'		*Joseph Fennell*	Do ULF Waves Generate Microinjections?
14:30	15'		*Jim Burch*	Fine Structure of Magnetopause Electron Diffusion Regions
14:45	15'		*Kevin Genestreti*	Ion-scale structure of the outer electron diffusion region
15:00	15'		*Michael Hesse*	Revisiting the structure of the electron diffusion region in asymmetric magnetic reconnection
15:15	15'		*Wenya Li*	Electron diffusion region of magnetic reconnection with ~0.10 guide field in the magnetotail
15:30	30'			Coffee Break
16:00	15'	EDR (S. Toledo-Redondo)	*Alexandra Alexandrova*	Electron firehose instability operating in the electron diffusion region
16:15	15'		*Kyunghwan Dokgo*	High-frequency waves driven by agyrotropic electron distribution
16:30	15'		*Roy Torbert*	Reconstructions and Dynamics in the External EDR
16:45	15'		*Martin Goldman*	Umbrella model of electron "crescent" velocity distributions
17:00	3h			Poster session Cocktail

POSTER SESSION (Tuesday 22 October 2019, 17-20h)	
Marek Vandas	Models of magnetosheath magnetic field
Vincent Génot	The CDPP in the MMS era
Olga Tsareva	Relationship between wave-like auroral arcs and electromagnetic drift waves
Elena Grigorenko	The dynamics of electron anisotropy and its relation to whistler bursts observed at dipolarization fronts by MMS
Natalia Buzulukova	Global and Local Properties of the Reconnection Exhaust: Global Resistive MHD Simulations and MMS Observations
Konrad Steinvall	Observations of Electromagnetic Electron Holes and Evidence of Cherenkov Whistler Emission
Rungployphan Kieokaew	Multi-scale Structure Analyses of Magnetopause Kelvin-Helmholtz Waves: Applications of Four-spacecraft to MHD Simulations and Cluster and MMS Obse
Sid Fadanelli	On the latitude development of the Kelvin-Helmholtz instability and subsequent reconnection at the Earth's magnetospheric flanks
Gabriel Fruit	Destabilization of 2D magnetic current sheets by resonance with bouncing electrons - a new theory
Benoit Lavraud	Who knows what this is?
Yongcun Zhang	MMS observations of an anomalous out-of-plane magnetic field at X line

Wednesday 23 October 2019 (Room: Rhune 2)				
Time	**Duration**	**Session**	**Speaker**	**Title**
09:00	15'	EDR / Turbulence (J. Burch)	*Jason Shuster*	Kinetic Signatures of Force Balance at the Reconnecting Magnetopause: MMS Observations of Terms in the Ion and Electron Vlasov Equations
09:15	15'		*Daniel Graham*	Non-Maxwellianity of electron distributions and their source regions
09:30	15'		*Quentin Lenouvel*	On the identification of Electron Diffusion Regions with neural networks at the magnetopause
09:45	15'		*Jose López-Miralles*	Measuring anomalous dissipation effects using a modification of the Wiener-Khinchin theorem.
10:00	15'		*Narges Ahmadi*	Observations of Kinetic Turbulence associated with Magnetotail Reconnection
10:15	30'	Coffee Break		
10:45	15'	Turbulence / Flank (S. Fadanelli)	*Yuri Khotyaintsev*	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection
11:00	15'		*Robert Ergun*	Particle Acceleration by Strong Turbulence Associated with Magnetic Reconnection
11:15	15'		*Julia E. Stawarz*	Turbulence-Driven Magnetic Reconnection: A Survey of Magnetosheath Turbulence Observed by MMS
11:30	15'		*Hiroshi Hasegawa*	Generation of turbulence in Kelvin-Helmholtz vortices at the Earth's magnetopause
11:45	15'		*Rungployphan Kieokaew*	Observations of Magnetic Reconnection inside a Flux Transfer Event in Magnetopause Kelvin-Helmholtz Waves
12:00	2h	Lunch time		
14:00	15'	Flank / magnetosheath / Dayside (J. Stawarz)	*Takuma Nakamura*	Effects of fluctuating magnetic field on the growth of the Kelvin-Helmholtz instability at the Earth's magnetopause
14:15	15'		*Katariina Nykyri*	MMS Observations of Multi-Scale Wave Structures and Energized Electrons at the High-Latitude Dayside Boundary Layer
14:30	15'		*Sid Fadanelli*	Energy densities and energy conversion rates at reconnection sites
14:45	15'		*Daniel Gershman*	Ion-Electron Decoupling in the Earth's Magnetosheath
15:00	15'		*C. Philippe Escoubet*	Magnetosheath high speed jets observed simultaneously at large distances by Cluster and MMS and future conjunctions
15:15	15'		*Ian Cohen*	Investigating the link between outer radiation belt losses and energetic electron escape at the magnetopause using MMS and Van Allen Probes
15:30	30'	Coffee Break		
16:00	15'	Dayside (K. Genestreti)	*Stephen Fuselier*	Imaging magnetosheath and magnetospheric ion populations at the Earth's subsolar magnetopause
16:15	15'		*Nicolas Aunai*	Structure of the exhaust and orientation of the X line in th case of magnetopause reconnection
16:30	15'		*Stefan Eriksson*	Reconnection Exhaust Structure at a Dayside Asymmetric Magnetopause
16:45	15'		*Binbin Tang*	Electron mixing and isotropization in the exhaust of asymmetric magnetic reconnection with a guide field
17:00	15'		*Naïs Fargette*	On the ubiquity of magnetic reconnection inside flux transfer events at the Earth's magnetopause
17:15	15'		*Sadie Robertson*	Topology of flux ropes on the magnetopause
17:30	15'		*M. Akhavan-Tafti*	MMS Observations & Vlasiator Simulations of the FTE Coalescence Process
19:30		Social dinner: Evening of flavors at Les Halles de Biarritz		

Thursday 24 October 2019 (Room: Rhune 2)				
Time	**Duration**	**Session**	**Speaker**	**Title**
09:00	15'	Dayside / Ionospheric ions (W. Li)	*Brandon Burkholder*	Magnetospheric Multi-Scale Observation of Reconnection Near the Southern Geomagnetic Cusp
09:15	15'		*Sarah Vines*	Outer magnetospheric EMIC wave properties: An MMS case study
09:30	15'		*Gautier Nguyen*	Automatic detection of magnetic reconnection jets using machine learning
09:45	15'		*Rhyan P. Sawyer*	Observations of Low Energy Ions by the TRICE 2 Sounding Rocket Campaign in conjunction with the MMS spacecraft
10:00	15'		*Sergio Toledo-Redondo*	Considerations on the MMS electrostatic potential structure when measuring cold ions in the Earth's magnetosphere
10:15	30'	Coffee Break		
10:45	15'	Ionospheric ions / Methods (S. Vines)	*Justin Lee*	Magnetospheric Multiscale observations of dense cold ions and electromagnetic ion cyclotron waves in a perturbed outer afternoon magnetosphere
11:00	15'		*Paul Tenfjord*	Streaming cold proton-reconnection interaction
11:15	15'		*Jérémy Dargent*	Simulation of the impact of a cold plasmaspheric plume on magnetic reconnection
11:30	15'		*V. Olshevsky (Y. Khotyaintse*	Automated classification of plasma regions using 3D particle energy distribution
11:45	15'		*Matthew Argall*	Statistics of the magnetic field power spectrum observed by MMS
12:00	2h	Lunch time		
14:00	15'	Methods / Bow shock (T. Phan)	*Levon Avanov*	Results of constant monitoring of the MMS/FPI MCP performance in flight
14:15	15'		*Michael Gedaln*	Collisionless relaxation in supecritical shocks
14:30	15'		*Mitsuo Oka*	Electron Scattering by Low-Frequency Whistler Waves at Earth's Bow Shock
14:45	15'		*Michael Starkey*	MMS Observations of accelerated He+ pick-up ions at a quasi-perpendicular interplanetary shock
15:00	15'		*Steven Schwartz*	Structure and evolution of a quasi-perpendicular shock: preliminary results from the MMS “Tilt Campaign”
15:15	15'		*Hanying Wei*	Shock associated whistler waves observed by MMS
15:30	30'	Coffee Break		
16:15	15'			
16:30	15'			
16:45	15'		Spillover	
17:00	15'			
17:15	15'			