MONDAY, 11. June (Allégaten 55, IFT building)

BREAKOUT SESSIONS

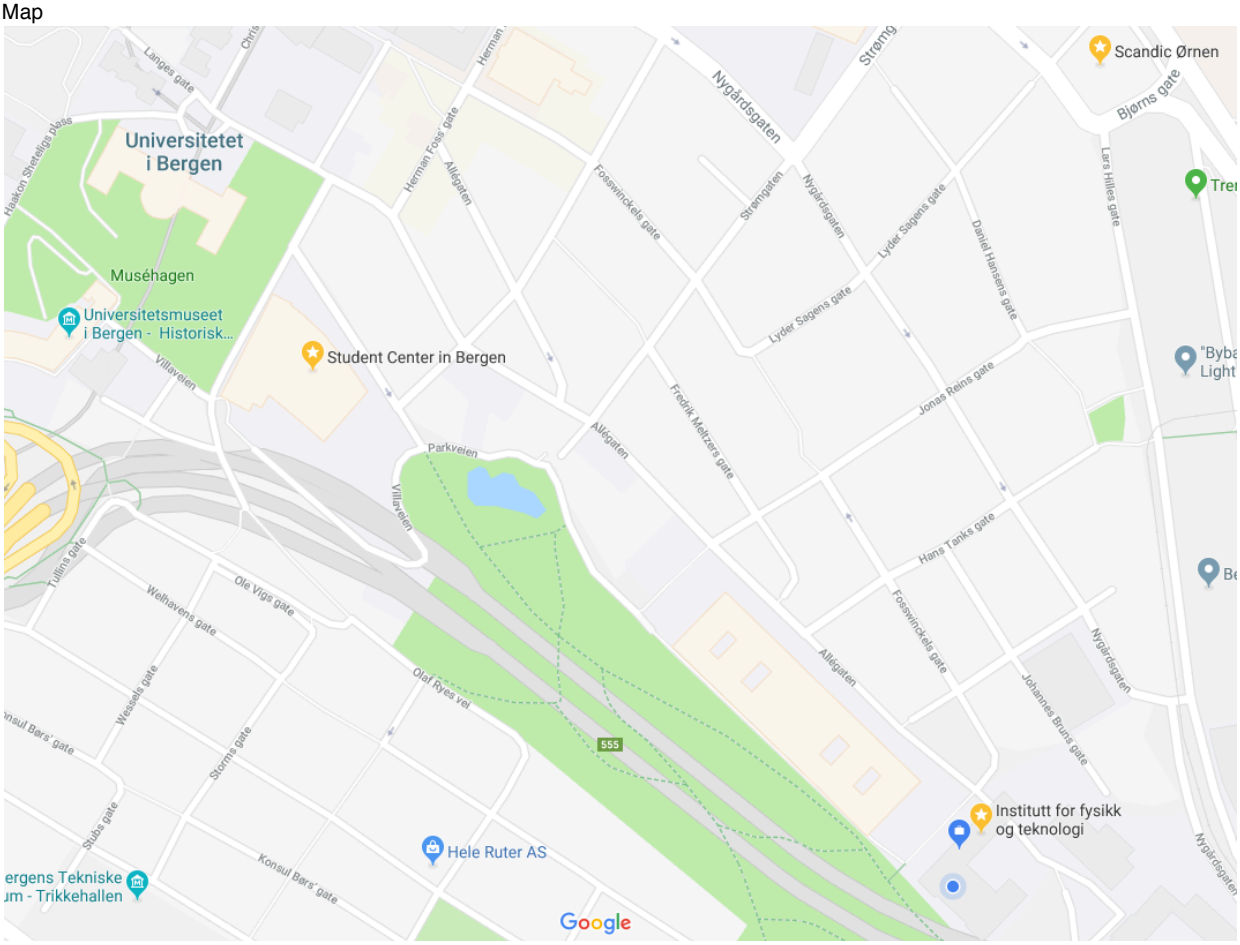
10:00-15:00 FIELDS team meeting (room 359)

12:30-15:00 TM team meeting (room 546)

15:00-17:00 SPEDAS tutorial (room 546)

15:00-18:00 SWG meeting (SWG only, room 359)

Map



TUESDAY, 12. June (Scandic Ørnen, Lars Hilles gate 18)

8:30-8:40	Hesse, M.	Welcome and logistics
DIFFUSION REGION PHYSICS (Chair: Paul Cassak)		
8:40-9:00	Burch, Jim	Electron Scale Physics of Symmetric and Asymmetric Reconnection from MMS
9:00-9:20	Liu, YH	Orientation and stability of asymmetric magnetic reconnection x-line
9:20-9:40	Trattner, Karlheinz	The transition between anti-parallel and component magnetic reconnection at the Earth's dayside magnetopause
9:40-10:00	Drake, J.F.	A 3D Simulation of a MMS Magnetopause Reconnection Event with a strong guide field
10:00-10:30	*Coffee break and poster viewing*	
10:30-10:50	Oieroset, Marit	Strongly driven magnetic reconnection with flux pileup at the interface of colliding jets at the magnetopause
10:50-11:10	Cozzani, G.	Diffusion region's structure at the subsolar magnetopause using
11:10-11:30	Tang, Binbin	MMS observations of electron crescent distributions at the flank magnetopause
11:30-11:50	Pritchard, Kristina	Energization and Movement of Electrons within an EDR with emphasis on the role of En
11:50-12:10	Egedal, Jan	The kinetic structure of the electron diffusion region observed by MMS during asymmetric reconnection
12:10-13:30	*Lunch (on-site, included) and poster viewing*	
DIFFUSION REGION PHYSICS cont'd		
13:30-13:50	Yamada, Masaaki	The two-fluid dynamics and energetics of the asymmetric magnetic reconnection in space and laboratory plasmas
The July 11, 2017 Event (Chair: Jim Drake)		
13:50-14:10	Nakamura, Rumi	Current sheet structure and evolution of 20170711 EDR event
14:10-14:30	Nakamura, Takuma	Fully kinetic simulation of an EDR crossing event observed by MMS on 11 July 2017
14:30-14:50	Hasegawa, Hiroshi	Reconstruction of the magnetotail reconnection region seen by MMS on 11 July 2017
14:50-15:10	Genestreti, K.J.	How accurately can we measure the reconnection rate E_M for the MMS diffusion region event of 2017-07-11?
15:10-15:30	Denton, R.E.	Determining the velocity of a magnetic structure, with application to the 11 July 2017 magnetotail reconnection event
15:30-16:00	*Coffee break and poster viewing*	
HEATING AND TURBULENCE (Chair: Kevin Genestreti)		
16:00-16:20	Eastwood, J.P.	Guide field reconnection: exhaust structure and heating
16:20-16:40	Phan, T.D.	MMS Observations of Electron Magnetic Reconnection without Ion Coupling in the Turbulent Magnetosheath
16:40-17:00	Ergun, R.E.	Magnetic Reconnection, Turbulence, and Particle Acceleration
17:00-17:20	Hesse, Michael	The role of separatrix instabilities in heating the outflow region
17:20-17:40	Argall, Matthew	MMS observations of kinetic entropy in the reconnection diffusion region
17:40-18:00	Goldman, M.	Multibeam energy transport

WEDNESDAY, 13. June (Scandic Ørnen, Lars Hilles gate 18)

8:30-8:40	Announcements	

HEATING AND TURBULENCE cont'd (Chair: Jason Shuster)

8:40-9:00	Eriksson, Stefan	MMS Observations of Magnetic Reconnection Exhausts in the Solar Wind Associated with Tripolar Perturbations of the Out-of-Plane Magnetic Field
9:00-9:20	Graham, D.B.	The role of lower hybrid waves in magnetic reconnection
9:20-9:40	Norgren, Cecilia	Electron acceleration and thermalisation at magnetotail separatrices
9:40-10:00	Li, Wenya	Electron Bernstein Waves driven by electron crescents near the electron diffusion
10:00-10:30	*Coffee break and poster viewing*	
10:30-10:50	Eriksson, Elin	Electron energization at a reconnecting magnetosheath current sheet
10:50-11:10	Steinvall, Konrad	Multi-Spacecraft Observations of Electron Holes
11:10-11:30	Holmes, Justin	Interior structure of strong electron phase-space holes

COLD AND HEAVY ION EFFECTS (Chair: Tai Phan)

11:30-11:50	Tenfjord, Paul	How Oxygen Influences the Reconnection Rate
11:50-12:10	Toledo-Redondo, Sergio	Balance of the Ohm's Law under the presence of cold ions of ionospheric origin in magnetic reconnection: PIC simulations and MMS observations
12:10-13:30	*Lunch (on-site, included) and poster viewing*	

COLD AND HEAVY ION EFFECTS cont'd (Chair: Tai Phan)

13:30-13:50	Alm, Love	Influence of cold ions on magnetotail Hall physics

SHOCK PHYSICS (Chair: Joachim Birn)

13:50-14:10	Fuselier, Stephen	High-speed jets downstream of the quasi-parallel bow shock
14:10-14:30	Schwartz, Stephen	Kinetic Aspects of a Hot Flow Anomaly: MMS Observations
14:30-14:50	Johlander, Andreas	Shock Ripples Observed by the MMS spacecraft: Ion Reflection and Dispersive Properties
14:50-15:10	Khotyaintsev, Yuri	Observation of Electrostatic Potential Structure and Ion Reflection for a Rippled Perpendicular Shock
15:10-16:00	Starkey, Michael	MMS Observations of He+ pick-up ions at Earth's perpendicular bow shock
15:30-16:00	*Coffee break and poster viewing*	

ADVANCED ANALYSIS METHODS (Chair: Stefan Eriksson)

16:00-16:20	Cassak, Paul	Kinetic Entropy as a Diagnostic in Particle-in-Cell Simulations of Magnetic Reconnection
16:20-16:40	Shuster, Jason	Resolving Terms of the Vlasov Equation with MMS
16:40-17:00	Escoubet, C. Philippe	Cluster MMS conjunctions tail 2018 and Cluster constellation 2019 (presented by Rumi Nakamura)
17:00-17:20	Toth, Gabor	Studying reconnection in Earth's magnetosphere using a global MHD with embedded PIC model
17:20-17:40	Paterson, William	Tuning Magnetospheric Multiscale's Automated Burst System
17:40-18:00	Reiff, Patricia	Using CCMC Modeling as Context for MMS Events

18:30	WORKSHOP DINNER (Scandic Ørnen, food included, drinks for purchase)	

THURSDAY, 14. June (Scandic Ørnen, Lars Hilles gate 18)

8:30-8:40	Announcements	

BBFS AND DIPOLARIZATION FRONTS (Chair: Bob Strangeway)

8:40-9:00	Breuillard, Hugo	3D ion-scale dynamics of BBFs and their associated emissions in Earth's magnetotail using 3D hybrid simulations
9:00-9:20	Birn, Joachim	Particle acceleration in dipolarization fronts
9:20-9:40	Pan, Dong-Xiao	Properties of electron-scale structures at a dipolarization front
9:40-10:00	LeContel, Olivier	Analysis of kinetic structures embedded in a fast earthward flow during a substorm event

10:00-10:30 *Coffee break and poster viewing*

FLUX ROPES (Chair: Elin Eriksson)

10:30-10:50	Hoilijoki, Sanni	Observations of a small-scale flux rope-like structure next to an EDR at the dayside magnetopause
10:50-11:10	Hwang, K.-J.	Magnetotail reconnection following a flapping motion of the magnetotail on 17 July 2017
11:10-11:30	Choi, E.	Substructure of an ion-scale flux rope observed in the magnetotail on 17 July 2017
11:30-11:50	Dogko, K.	Multiple plasma wave modes in the magnetotail separatrix region on 17 July 2017
11:50-12:10	Stawarz, J.E.	Intense electric fields and electron-scale substructure within magnetotail flux ropes as revealed by the Magnetospheric Multiscale mission

12:10-13:30 *Lunch (on-site, included) and poster viewing*

BROADER MMS RESEARCH (Chair: Mats Andre)

13:30-13:50	Strangeway, Robert	Field-Aligned Currents as Observed by Magnetospheric Multiscale
13:50-14:10	Russell/Strangeway	The Case for Dust Comets Striking the Magnetosphere
14:10-14:30	Lavraud, Benoit	Four-spacecraft measurements of the size and dimensionality of magnetic structures
14:30-14:50	Petrinec, S.M.	On the Occurrence of Magnetic Reconnection Along the Dawn and Dusk Magnetopause
14:50-15:10	Le, G.	Poloidal and Toroidal Mode Field Line Resonances Observed by MMS

15:30-16:00 *Coffee break and poster viewing*

WORKSHOP END

16:00-17:00 UIB Horizon Lecture
Jim Burch and Michael Hesse: The most powerful explosions in space may not be what you think they are
Location: Egget room, Student Center (Parkveien 1)
15:30-16:00 Reception
16:00-17:00 Lecture
https://www.uib.no/en/matnat/71340/horizons-lecture-series

POSTERS

Graham, D.B.	Large-amplitude high-frequency waves at Earth's magnetopause
André, Mats	Cold ions at the magnetopause: Effects at various scales
Dogko, K.	PIC simulation study of nonlinear upper-hybrid waves near EDR
Choi, E.	PIC Simulation of Kelvin-Helmholtz instability at the Dayside Magnetosphere
Hwang, K.J.	FTE generated in the velocity shear layer of Kelvin-Helmholtz vortices