



# 2013 Radiation Belts Workshop: Comprehending, Specifying and Forecasting their Dynamics

## Tuesday, 2 July 2013

### Wave, Wave-Particle Interactions and RB Dynamics: Session 1 (09:00 - 11:00)

time	[id] title	presenter
09:00	[34] A discussion on initial results from the Van Allen Probes	Dr SIBECK, David G.
09:20	[52] Initial Look at the Electron Slot and Inner Zone Regions with RBSP/MagEIS	Dr OBRIEN, PAUL
10:00	[9] Examining the 30 Sep. 2012 dropout using multipoint observations, including Van Allen Probes and THEMIS	Dr TURNER, Drew
10:20	[53] The MAARBLE project: mapping waves and reconstructing particles	Prof. DAGLIS, Ioannis
10:40	[33] ULF Waves in the Earth's Inner Magnetosphere: Role in Radiation Belt and Ring Current Dynamics	MANN, Ian Robert

### Wave, Wave-Particle Interactions and RB Dynamics: Session #2 (11:30 - 13:30)

time	[id] title	presenter
11:30	[37] Particle diffusion due to oblique chorus and hiss waves	Dr KRASNOSELSKIKH, Vladimir
12:10	[28] 1-D Radial Diffusion Simulation of the Outer Radiation Belt Driven by New Analytic Expressions for the ULF Wave Diffusion Coefficients.	Dr OZEKE, Louis
12:30	[24] Simultaneous observations of ULF waves in the Earth's magnetosphere, topside ionosphere and surface	Dr BALASIS, Georgios
12:50	[32] Unusual long-lasting EMIC wave event during the Van Allen Probes era	Prof. MANN, Ian
13:10	[19] EMIC triggered emissions: Cluster observations and ray-tracing results	Dr GRISON, Benjamin

# Wednesday, 3 July 2013

## Wave, Wave-Particle Interactions and RB Dynamics: Session #3 (09:00 - 11:00)

time	[id] title	presenter
09:00	[59] Using Ionospheric Heaters to Explore the Physics of the Radiation Belts	Prof. PAPADOPOULOS, Dennis
09:40	[7] A new diffusion matrix for chorus waves	Prof. HORNE, Richard
10:00	[6] Global statistical evidence for chorus as the embryonic source of plasmaspheric hiss	Dr MEREDITH, Nigel
10:20	[29] Measurements of whistler-mode waves in the outer Van Allen belt: systematic analysis of 11 years of multicomponent data from the Cluster STAFF-SA instrument	SANTOLIK, Ondrej
10:40	[5] Statistics of Whistler-Mode Waves in the Outer Radiation Belt: Cluster STAFF-SA measurements	Dr AGAPITOV, Oleksiy

## Wave, Wave-Particle Interactions and RB Dynamics: Session #4 (11:30 - 12:30)

time	[id] title	presenter
11:30	[54] Initial Results From The Electric and Magnetic Field Instrument Suite and Integrated Science (EMFISIS) on the Van Allen Probes	SANTOLIK, O.
12:10	[3] Occurrence of hiss emission in the dusk sector	Dr LAAKSO, Harri

## Wave, Wave-Particle Interactions and RB Dynamics: Session #4 (14:30 - 16:50)

time	[id] title	presenter
14:30	[38] Detection of a plasmaspheric wind in the Earth's magnetosphere by the Cluster spacecraft	Dr DANDOURAS, Iannis
15:10	[13] Effect of plasma density on diffusion rates for wave particle interactions with chorus, plasmaspheric hiss and EMIC waves: Extreme event analysis.	Mrs SICARD-PIET, Angélica
15:30	[47] Space weather impacts on satellites and forecasting the Earth's electron radiation belts with SPACECAST	Prof. HORNE, Richard
15:50	[51] Discussion	