ISSS12 **School** — Daily Schedule

	Thursday	Friday	Saturday	Sunday	Monday
	July 2nd	July 3rd	July 4th	July 5th	July 6th
9.00–10.30		**Tutorials** Omura Marchand	**Tutorials** Jenko	**Tutorials** Otto Huba	**Tutorials** Gombosi Innocenti & Lapenta
10.30–11.00		Cooffee & Posters	Cooffee & Posters	Cooffee & Posters	Cooffee & Posters
11.00–12.30		**Tutorials** Califano & Briand	**Tutorials** Omura Usui	**Tutorials** Burgess Rampp	**Tutorials** Decyk Rampp
12.30–14.00		Lunch	Lunch	Lunch	Lunch
14.00–15.30		**Hands-on Sessions (parallel)**	**Hands-on Sessions (parallel)**	**Hands-on Sessions (parallel)**	**Hands-on Sessions (parallel)**
15.30–16.00		Cooffee & Posters	Cooffee & Posters	Cooffee & Posters	Cooffee & Posters
16.00–17.30	**17.00–18.00 Registration**	**Hands-on Sessions (parallel)**	**Hands-on Sessions (parallel)**	**Hands-on Sessions (parallel)**	**Hands-on Sessions (parallel)**
17.30–18.00		Discussion & Posters	Discussion & Posters	Discussion & Posters	Discussion & Posters
18.00–20.00	**18.00–20.00 Welcome Drink**				**ISSS12 S Y M P O S I U M begins**

Color Codes

Symposium Office S6	Lecture Hall S5	Computer LABs SU2 & SW2	Hall in front of Lecture Hall	Restaurant "Profesní dům" (basement)	Various Places (for details, see program below)

ISSS12 **School** — Program

Thursday — July 2nd

17.00–18.00	**Registration**	Restaurant "Profesní dům"
18.00–20.00	**Welcome Drink**	Restaurant "Profesní dům"

Friday — July 3rd

9.00	**Y. Omura**	Introduction: History and Purpose of ISSS
9.30	**R. Marchand**	Test Particle Calculations
10.30	*Coffee Break & Posters*	
11.00	**F. Califano, C. Briand**	Vlasov Code Kinetic Simulation
12.30	*Lunch Break*	
14.00 room SU2	**R. Marchand**	Test Particle Calculations
14.00 room SW2	**F. Califano, C. Briand**	Vlasov Code Kinetic Simulation
15.30	*Coffee Break & Posters*	
16.00 room SU2	**F. Califano, C. Briand**	Vlasov Code Kinetic Simulation
16.00 room SW2	**R. Marchand**	Test Particle Calculations
17.30	*Discussion & Posters*	
18.00	*End of Session*	

Saturday — July 4th

9.00	**F. Jenko**	Gyrokinetics: Theory and Simulation
10.30	*Coffee Break & Posters*	
11.00	**Y. Omura**	PIC 1D–2D
12.00	**H. Usui**	PIC: Spacecraft Charging
12.30	*Lunch Break*	
14.00 room SU2	**F. Jenko, T. Görler**	Gyrokinetics
14.00 room SW2	**Y. Omura**	PIC 1D & 2D
15.30	*Coffee Break & Posters*	
16.00 room SU2	**Y. Omura**	PIC 1D & 2D
16.00 room SW2	**F. Jenko, T. Görler**	Gyrokinetics
17.30	*Discussion & Posters*	
18.00	*End of Session*	

Sunday — July 5th

9.00	**A. Otto**	MHD
9.45	**J. Huba**	Hall MHD
10.30	*Coffee Break & Posters*	
11.00	**D. Burgess**	Hybrid Simulation
11.45	**M. Rampp**	High Performance Supercomputing
12.30	*Lunch Break*	
14.00 room SU2	**F. Widmer, P. Muñoz Sepúlveda**	MHD
14.45 room SU2	**J. Huba**	Hall MHD
14.00 room SW2	**D. Burgess**	Hybrid Simulation
15.30	*Coffee Break & Posters*	
16.00 room SU2	**D. Burgess**	Hybrid Simulation
16.00 room SW2	**F. Widmer, P. Muñoz Sepúlveda**	MHD
16.45 room SW2	**J. Huba**	Hall MHD
17.30	*Discussion & Posters*	
18.00	*End of Session*	

Monday — July 6th

9.00	**T. Gombosi**	Fully Two-way Coupled 3D PIC–MHD Simulation
9.45	**M. E. Innocenti, G. Lapenta**	Multi-Level Multi-Domain Method in PIC Simulation
10.30	*Coffee Break & Posters*	
11.00	**V. Decyk**	Exascale Computing
12.00	**M. Rampp**	Visualization: VisIt, ParaView
12.30	*Lunch Break*	
14.00 room SU2	**V. Decyk**	Exascale Computing
14.00 room SW2	**M. Rampp, J. Skála**	Visualization by VisIt and ParaView
15.30	*Coffee Break & Posters*	
16.00 room SU2	**M. Rampp, J. Skála**	Visualization by VisIt and ParaView
16.00 room SW2	**V. Decyk**	Exascale Computing
17.30	*Discussion & Posters*	
18.00	*End of Session*	

POSTERS — July 2nd–10th

poster #10	**A. A. Ilyasov**, A. A. Chernyshov, M. M. Mogilevsky, I. V. Golovchanskaya, B. V. Kozelov	Sources of the Broadband Electrostatic Turbulence in the High-latitude Ionosphere
poster #11	**A. Barik**, J. Wicht	Spherical Couette Dynamos
~~**poster #12**~~	~~**A. Kumar Singh**, P. Kuamr~~	~~Harmonic Generation in Quantum Plasma~~
poster #13	**B. Remya**, B. T. Tsurutani, R. V. Reddy, G. S. Lakhina, R. Hajra, E. Echer	Cyclotron Waves and Pitch Angle Scattering in the Magnetospher
poster #14	**B. Ferdousi**, J. Raeder	Travel Time of MHD Waves in the Magnetosphere: OpenGGCM Simulation
poster #15	**C. K. Chang**, L. N. Hau, B. J. Wang	Fluid Simulations of Mirror Instabilities
poster #16	**C. Gonzalez**, P. Minnini, P. Dmitruk	Test Particle Acceleration in Compressible and Incompressible MHD Turbulence
poster #17	**E. Gordeev**, V. Sergeev, M. Kuznetsova, L. Rastaetter, A. Pembroke, I. Honkonen, A. Chulaki, M. Mendoza, M. Palmroth	Testing the Global Magnetohydrodynamic Models Against the Empirical Statistical Relationships
poster #18	**F. Cruz**, E. P. Alves, R. A. Bamford, R. Bingham, R. Fonseca, L. O. Silva	PIC Simulations of Collisionless Shocks in Mini Magnetospheres
poster #19	**F. Widmer**, J. Büchner	Turbulent Magnetic Reconnection using Sub-Grid Scale MHD Modelling
poster #20	**G.-W. Chen**, L.-N. Hau, B. J. Wang	On Two-dimensional Magnetopause Structure Reconstructed Based on the Grad-Shafranov Solver
poster #21	**H. Tsuji**, Y. Ebihara, Y. Omura, T. Tanaka	Impact of Impulse of Solar Wind on Ions in the Inner Magnetosphere
poster #22	**J. Dargent**, N. Aunai, G. Belmont, N. Dorville, B. Lavraud, M. Hesse	Asymmetric Kinetic Equilibria for Full PIC Simulations of Asymmetric Magnetic Reconnection
poster #23	**J. J. Reed**, C. M. Jackman, M. P. Freeman	The Role of Io in the Dynamics of Jupiter's Magnetosphere: A Sandpile Modelling Approach
poster #24	**K. Hirai**, Y. Katoh, N. Terada, S. Kawai	Nonlinear Evolution of MRI Studied by an MHD Code with the Compact Difference and the LAD Method
poster #25	**L. Franci**, S. Landi, L. Matteini, A. Verdini, P. Hellinger	Plasma Turbulence from MHD to Proton Scales: Results from High-resolution Hybrid Simulations
poster #26	**M. Basovník**	Modifications of PIC Simulation for Plasma Plane Waves
poster #27	**M. Bedford**, N. Pogorelov	Investigating Heliospheric Structure with a Multi-fluid Model for Pickup Ions
poster #28	**M. Cvengros**	Reconnection of Magnetic Field Lines on Ion Scale
poster #29	**M. Horký**, W. J. Miloch	Numerical Instabilities in PIC Simulations of Plasmas in E×B Fields
poster #30	**M. Shevelev**	Relevance of the Magnetic Field Shear Scale in the Kelvin–Helmholtz Instability Dynamics
poster #31	**M. Shoji**, Y. Omura	Simulations on Electromagnetic Ion Cyclotron Rising Tone Emissions in the Inner Magnetosphere
poster #32	**N. Ahmad**, H. Usui, Y. Miyake	Preliminary Simulation Study on LEO Spacecraft Charging for Satellite Anomaly Information Systém
poster #33	**O. Šebek**, P. M. Trávníček, R. J. Walker, P. Hellinger	Plasma Interaction at Io: Multi-species Hybrid Simulations
poster #34	**P. Carneiro**, T. Grismayer , R. A. Fonseca, L. O. Silva	QED Multi-dimensional Vacuum Polarization Solver
poster #35	**S. Devanandhan**, T. Sreeraj, S. V. Singh, G. S. Lakhina	Ion Acoustic Solitons in Magnetoplasmas with Helium Ions and Superthermal Electrons
poster #36	**S. Dyadechkin**, E. Kallio, P. Wurz	New Fully Kinetic Model for the Study of Electric Potential, Plasma and Dust Above Lunar Landscapes
poster #37	**S. S. A. Silva**, J. Buchner, M. V. Alves, J. C. Santos	Non Local Heat Flux in Solar Flares
poster #38	**S. V. Steffy**, S. S. Ghosh	Ion Acoustic Solitary Waves in Two Electron Temperature Warm Multi-ion Plasma
poster #39	**S. Takeshige**, S. Takasao, K. Shibata	The Formation and Propagation of MHD Shock Waves During the Plasmoid Coalescence Process

~~**poster #40**~~	~~**S. Fu**, B. Ni, J. Li~~	~~Wave-particle Interaction Between Fast Magnetosonic Wave and Energetic Electrons Based on Numerical~~
poster #41	**T. Elsden**, A. N. Wright	Numerical Simulations of MHD waves in Earth's Magnetospheric Waveguide
poster #42	**T. Furuzono**, A. Kageyama	Stellar Dynamo Simulation with Radiative Zone
poster #43	**V. Kiselev**, V. Grechnev	The 26 December 2001 Solar Event Responsible for Ground Level Enhancement 63
poster #44	**X. An**, B. Van Compernolle, J. Bortnik, R. M. Thorne, P. Pribyl, W. Gekelman	Excitation of Whistler Waves in a Laboratory Plasma
poster #45	**X. Cao**, B. Ni	Resonant Scattering of Outer Zone Relativistic Electrons by Multi-band EMIC Waves
poster #46	**Y. Hsieh**, Y. Omura	Test Particle Simulation of Energetic Electrons Interacting with Whistler-mode Chorus Waves at Oblique Angles
poster #47	**A. Pitna**, J. Safrankova, Z. Nemecek, F. Nemec, L. Prech, C. H. K. Chen, G. N. Zastenker	Evolution of Turbulence Through Interplanetary Shocks
poster #X01	**L. Liuzzo**, M. Feyerabend, S. Simon	A Hybrid Simulation Study of Moon–Magnetosphere Interactions at Callisto and Titan
poster #X02	**L. Liuzzo**, M. Feyerabend, S. Simon	Hybrid Simulation of Callisto's Interaction with Jovian Magnetosphere
poster #X03	**D. Kramoliš**, M. Varady, M. Bárta	Particle Acceleration in Cascading Current Sheet
poster #X04	**Y. Kubota**, Y. Omura	Test Particle Simulation of Radiation Belt Electrons Interacting with EMIC Triggered Emissions
poster #X05	**D. Koronczay**, B. Heilig, A. Jorgensen, J. Lichtenberger	Data Assimilation with Plasmaspheric Density Measurements from VLF Whistlers — Preliminary Results
poster #X06	**M. Nakanotani**, S. Matsukiyo, T. Hada	Electron Acceleration in Two Colliding Shocks
poster #X07	**I. V. Kuzichev**, D. R. Shklyar	On Non-diffusive Energization of Suprathermal Ions by Lightning-generated Ion Cyclotron Waves
poster #X08	**A. Yu. Malykhin**, E. E. Grigorenko, KH. V. Malova	The Kinetic Effects in Ion Dynamics in Closed Magnetic Configurations
poster #X09	**Y. Miyake**, M. N. Nishino	Full-Particle Simulations on Plasma Environment Around Lunar Vertical Hole