Verification of Kinetic and Gyrokinetic Codes, 8 to 10 April 2014
Programme

Tuesday, 8 April 2014

8:30	Registration at IPP Building D2, ground floor
9:00	Eric Sonnendrücker
	Presentation of the workshop
9:15	Nicolas Besse
	Gyrowaterbag models of ion-temperature-gradient instability
9:50	Discussion
10:15	Tobias Görler
	Self-consistent treatment of electromagnetic effects in gyrokinetics
10:50	Discussion
11:00	Coffee Break
11:20	Natalia Tronko
	Hamiltonian second order derivations of gyrokinetic theory
11:55	Discussion
12:30	Lunch break and discussions in small groups
14:00	Bedros Afeyan
	Resonant interactions between KEEN waves and Electron Plasma Waves in Vlasov-Poisson and Vlasov-Maxwell simulations
14:35	Discussion
15:00	Virginie Grandgirard
	GYSELA a global full-f semi-Lagrangian code for ITG turbulence : Conservation law properties ?
15:35	Discussion
16:00	Coffee Break
16:20	Klaus Hallatschek
	Collision operator and splitting errors for edge parameters
16:55	Discussion
19:00	**Dinner at Restaurant „Rondell" at Garching, Bürgerplatz 9 (just outside metro station Garching)**

Wednesday, 9 April 2014

8:30	Yaman Güçlü
	The plasma sheath problem for 1D-1V Vlasov-Poisson solvers
9:05	Discussion
9:30	Jingmei Qiu
	High order maximum principle preserving semi-Lagrangian finite difference WENO schemes for the Vlasov equation
10:05	Discussion
10:30	Coffee Break
10:50	Andrew Greenwood
	Interaction of electromagnetic fields and particles using Faraday rotation
11:25	Discussion

11:50	Patrick Kilian
	Plasma waves as a benchmark problem
12:25	Discussion
12:50	Lunch break and discussions in small groups

14:00	Alessandro Biancalani
	Linear collisionless dynamics of axisymmetric modes in tokamaks with GK PIC code NEMORB
14:35	Discussion
15:00	Ralf Kleiber
	Gyrokinetic particle-in-cell simulations with EUTERPE
15:35	Discussion
16:00	Coffee Break
16:20	Gabriele Merlo
	Proposal for gyrokinetic benchmark
16:55	Discussion

Thursday, 10 April 2014

9:00	Discussion in breakout groups
10:30	Coffee Break
10:50	Discussion in breakout groups
11:50	Lunch break and discussions in small groups

14:00	Summary of discussions and proposed benchmarks for gyrokinetic codes
15:00	Summary of discussions and proposed benchmarks for kinetic codes
16:00	End of workshop. Possibility of continuing discussions in small groups