

15th International Workshop on Beam Dynamics and Optimization

Pavel Snopok

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Beam and Plasma Dynamics

- Beam Dynamics – 70%
- Plasma Dynamics – 30%:
 - ITER (D.Ovsyannikov)
 - Gutta Tokamak (Zavadskiy, Sukhov)
 - General Optimization (Veremey, Sotnikova, A.Zhabko)



Beams and Accelerators

- Simulations and Optimization:
 - Evolutionary Algorithms (Poklonskiy, Balabanov)
 - Analytical Technique, Intense Beams (Ivanov)
 - Rigorous Optimization (Makino)
 - Emittance Optimization in RFQ (A.Ovsyannikov)
 - 6D Cooling Simulations (Snopok)
 - APF Accelerator (Kotina)
- Engineering Issues:
 - XFEL Photo Injector (Krasilnikov)
 - Heavy-Ion Structures with Electrostatic Focusing (Dyubkov)
 - Wigglers in the Hefei Light Source Storage Ring (Zhang)
 - 5 MeV Microtrone (Stepanchuk)
- General type talks:
 - Map methods (Berz, Wittig)
 - Stability Estimates (Sotnikova, A.Zhabko, Solovyeva)
 - Rigorous Analysis (Makino)



NFMCC Participation

- Pavel Snopok, “6D Cooling Simulations”
- Alexey Poklonskiy, “Evolutionary Algorithm for the NF Front-End”

In discussion:

- Gail Hanson
- Carol Johnstone
- Martin Berz
- Kyoko Makino
- Valentin Ivanov

