

Preliminary program
Experts Meeting “Heavy Ion Stopping’09”

Moscow, territory of State Scientific Center Institute for Theoretical and
Experimental Physics, on June, 3-4, 2009

Wednesday, June, 3, 2009

Chair: A. Golubev

- 10.00 – 10.05 Open: Alexander Golubev
- 10.05 – 10.15 Welcome: Deputy Director ITEP Boris Sharkov
- 10.15 – 11.15 Prof. Peter Sigmund
Impact-parameter-dependent electronic stopping of swift ions
- 11.15 – 11.35 Coffee
- 11.35 – 12.15 Dr. Vasily Khodyrev
"Treatment of the spatial correlation effect in energy loss straggling using the current density approach".
- 12.15 – 14.00 Lunch

Chair: P. Sigmund

- 14.00 – 14.30 Mr. Alexander Frank
Energy loss and charge exchange of argon in laser-generated carbon plasma
- 14.30 – 15.00 Prof. Mikhail Basko
"2D simulations of laser plasma for ion stopping measurements"
- 15.00 – 15.20 Coffee
- 15.20 – 15.50 Dr. Zhao Yongtao
Charge state distribution of 0.8 A MeV U ions passing through C-foils
- 15.50 – 16.20 Dr. Andrey Kunin
Ion energy loss in porous target – experiment
- 16.20 – 16.50 Mr. Artem Gnutov
Computer Simulation of Ion Stopping in Porous Matters
- 16.50 – 17-20 Mr. Konstantin Moshkunov

Isotopic effect in the energy spectra broadening of the fragments of different scattered hydrogen molecular ions

Thursday, June, 4, 2009

Chair: M. Basko

- 10.00 – 10.30 Prof. Gennady Klenov
"Proton Therapy Technology in Russia"
- 10.30 – 11.00 Prof. Nikolay Sobolevsky
"Applications of the SHIELD transport code to studies in hadron therapy and to heavy ion transport in matter."
- 11.00 – 11.20 Coffee
- 11.20 – 11.50 Dr. Hiroshi Iwase
Heavy ion stopping calculations by the PHITS code.
- 11.50 – 12.20 Dr. Igor Roudskoy
Development of 3D treatment planning code for carbon ion radiotherapy at ITEP.
- 12.20 – 14.00 Lunch
- Chair: A. Fertman**
- 14.00 – 14.30 Dr. Oleg Ryazantsev
"Proton Planning System ProCom - problems and solutions".
- 14.30 – 15.00 S.I. Samarin.
Results of testing and adjusting a model for the calculation of dose deposition in a voxel phantom by the Monte Carlo method
- 15.00 – 15.20 Coffee
- 15.20 – 15.50 Dr. Irina Kancheli:
"Organization of planning and proton treatment of intraocular malignant neoplasms".
- 15-50 – 16.20 Mr. Nikolay Markov
"Carbon ion stopping measurements for radiobiological research at ITEP-TWAC facility"
- 16.20 P. Sigmund closes the Experts Meeting