Photographer - Nadezhda Sharykina (c) IHEP

FAP REPO























































































































































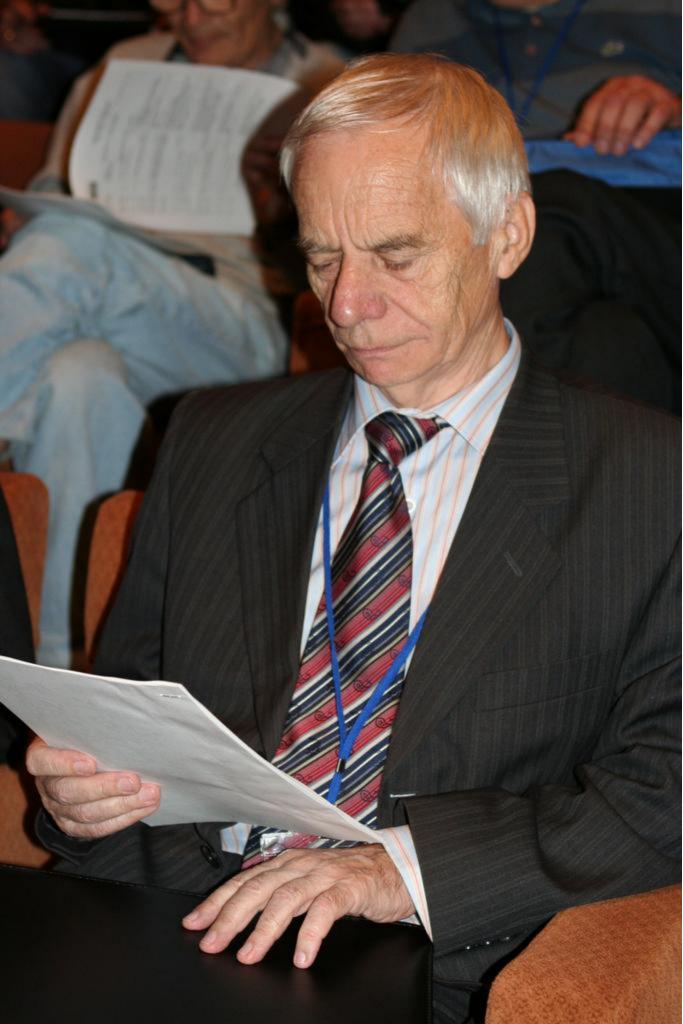


































































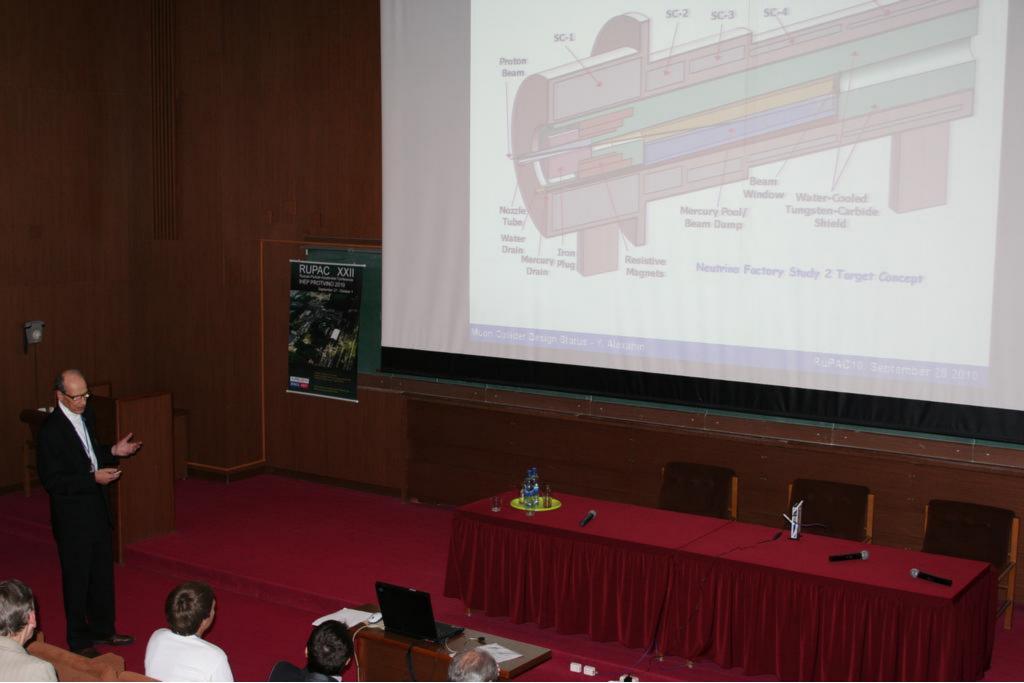
Grad Grad

Combining the above equation with the equation is the charge tune shift one obtains

 $\delta v_{M} = \delta v_{X} \sqrt{\frac{\pi}{2}} \frac{\sigma_{x}}{C} \gamma^{2} \left(1 + \beta^{2}\right)$

BFor NICA parameters the space charge tune shift is significant smaller than the tune shift due to beam space charge **B**Small β ' results small σ , and, consequently, small δv_{sc} . **B**Large value of σ_s/β ' results in phase averaging for high order resonances and significantly mitigates the beam-beam effects.













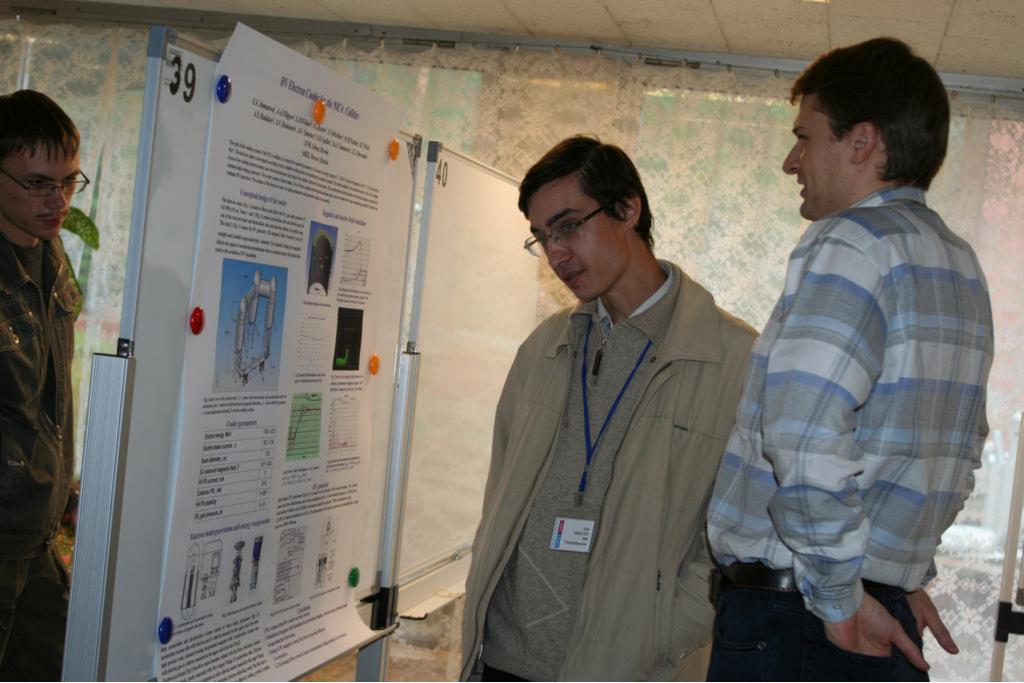




































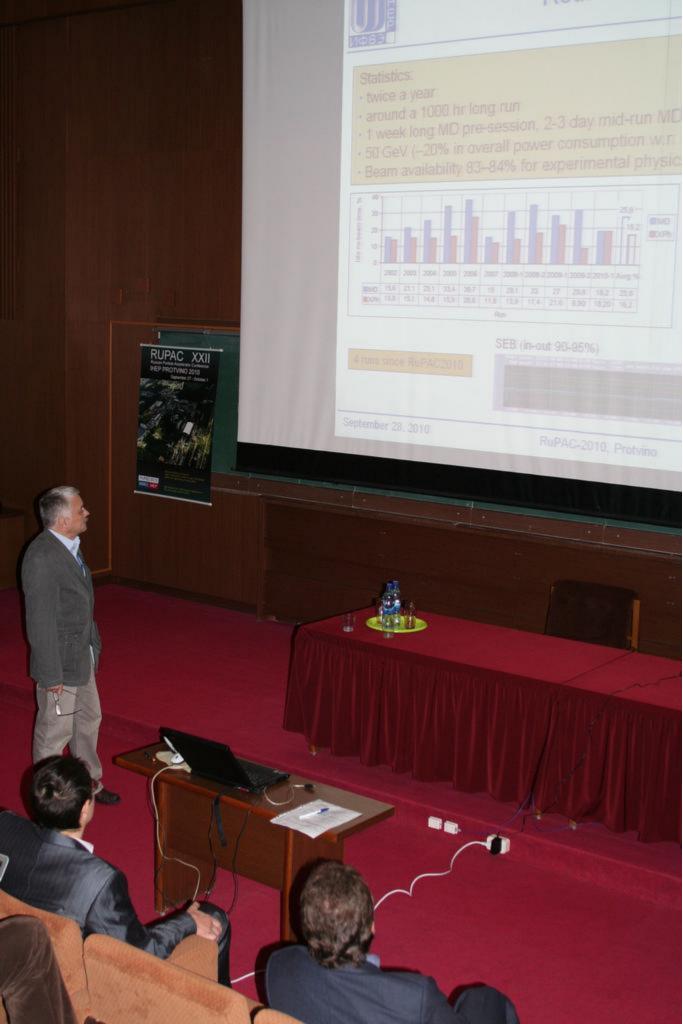


















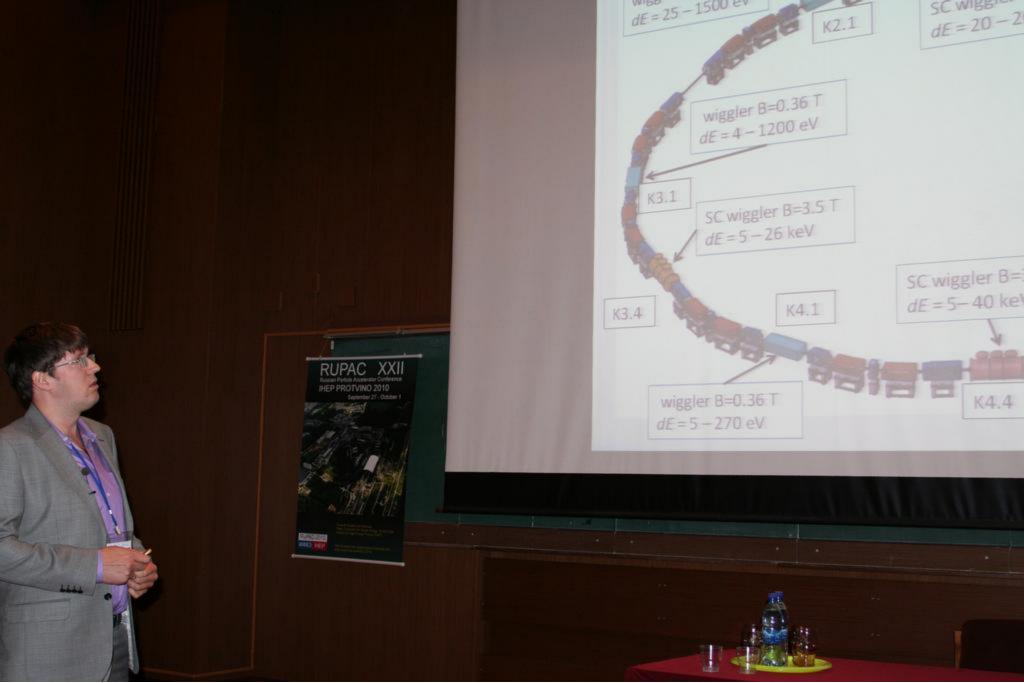


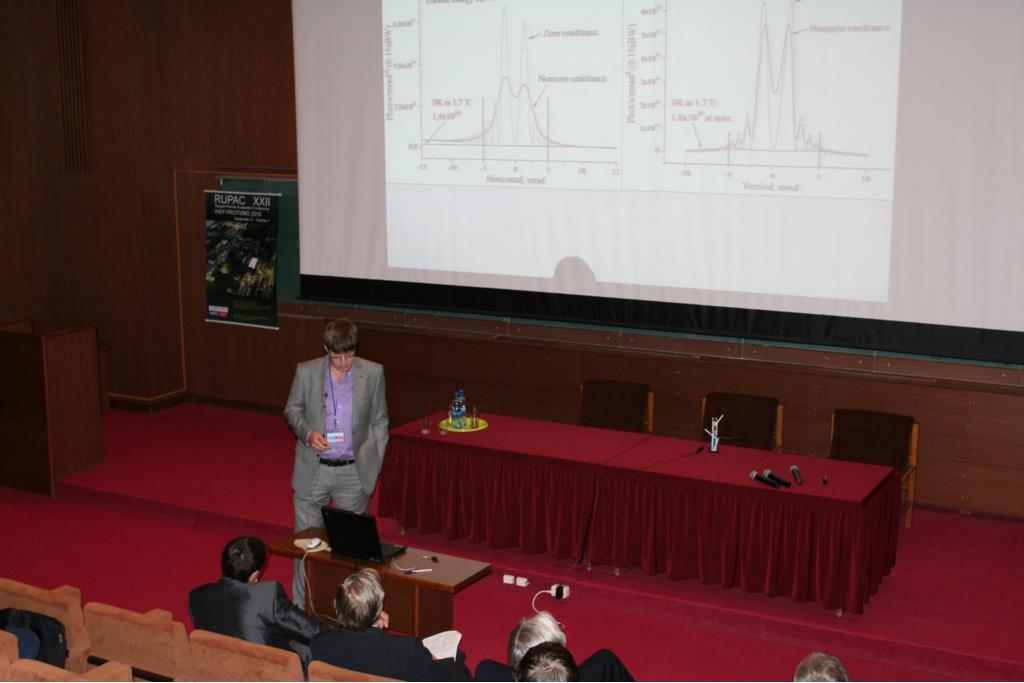


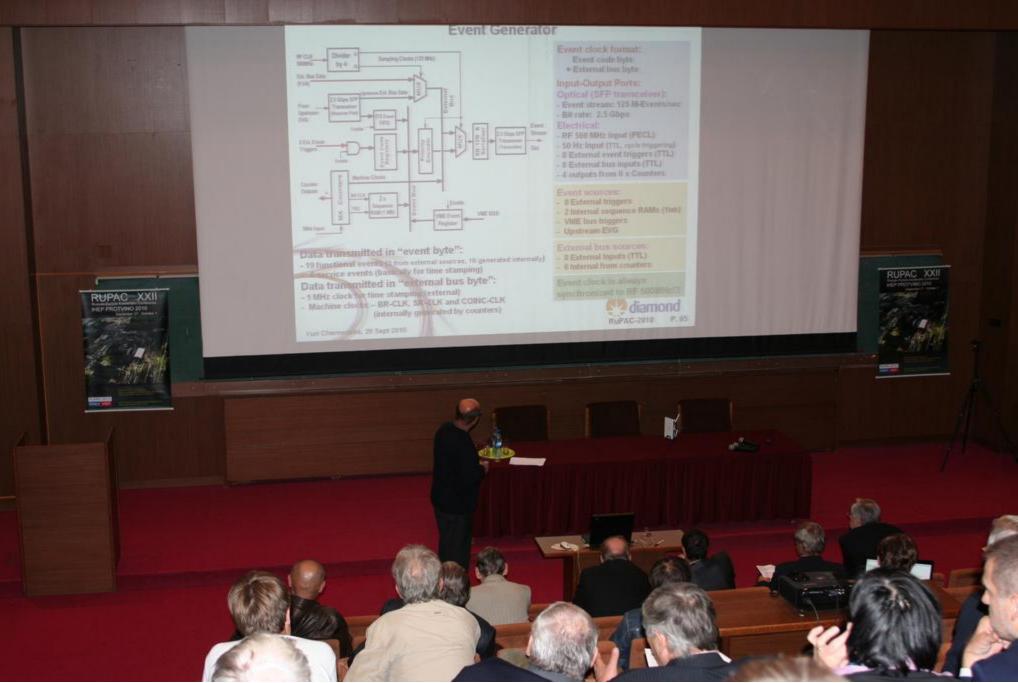












TMING SYSTEM OF THE PLEX ITEP-TWAC C RF ITEP MONCOW, Russia

These matrices as well as a single based compared for an oral, which and RAINS proc. Automation requires and compared that are formers. For the and DBS 5.2 community, the processes of all to prosent the and characterized proceedings of the support of the oral and an architecture of the state of the support of the matrix.



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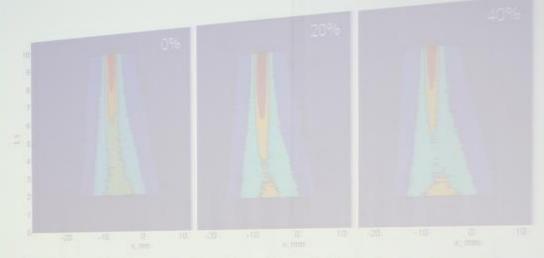








Injection line optimization, and



Evolution of the beam horizontal profiles at different steering angles 0, 20 and 40%. Of the maximum steering angle).























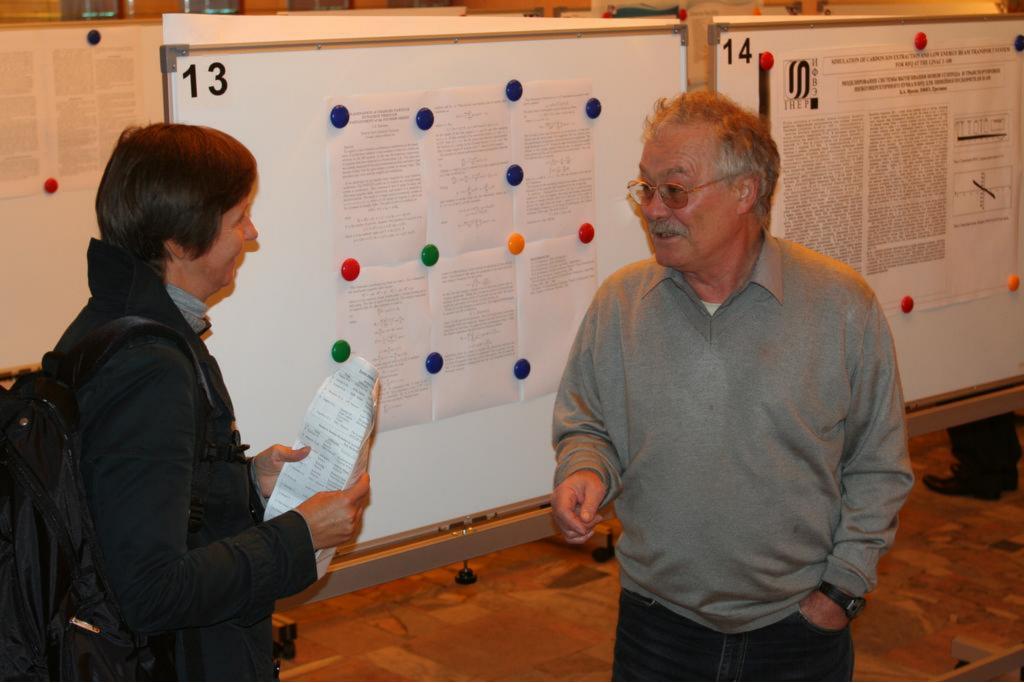












































with considerable reduce the magnetic reduced beams is pose plasma discharge at which the magnetic reduced beams is pose formation of other interesting configurations of beams of ions in The plasma lens provides formation of hollow beams of ions is wide range of parameters that allows to consider it as a possifiter allows to c

The plasma lens can be used for transformation of beams with Gaussian distribution of particles density in a beams with homogeneous spatial distribution.

Application of the several plasma lenses which are in different stages of the plasma discharge, presumes to create some nontr spatial configurations of ions beams.

The plasma lens represents the universal tool for investigation plasma discharges.

RUPAC XXII





