

## Summary of the Meeting on 'Beam Energy Measurements' between DLNP (JINR, Dubna) and DESY (Zeuthen) at JINR, Dubna from 28.10. to 29.10.2004

Present: V. Duginov, R. Makarov, T. Mamedov, N. Morozov, N. Skachkov, E. Syresin (DLNP JINR Dubna)  
R.A. Melikian, V.T. Nikoghosyan (Yerevan Physics Institute, Armenia)  
K.H. Hiller, H.J. Schreiber (DESY)

The meeting was aimed to give a status report on the Technical Design Study (TDR) of the BPM-based magnetic spectrometer for the precise energy measurement of the incoming beams at the future linear collider (ILC) and to discuss future activities in this direction.

After opening and introductory remarks by V. Duginov we discussed the proposal of an Attachment to the Agreement between Dubna and DESY. Some final discussion was planned with A. Olshevsky (Director of DLNP) at the end of meeting.

Presentations of the Meeting:

- J. Schreiber: "DESY's activities within the ILC project"
- N.Morozov: "State of the vibrating wire stand. State of the NMR and Hall magnetometers manufacturing."
- R. Makarov: "First results of SR production within GEANT4"
- R. Melikian: "The latest calculations on the Resonance Absorption method"
- K.H. Hiller: "Some aspects of the Resonance Absorption method"
- N.Morozov: "Results of the visit to Saclay"

J. Schreiber gave an open talk (seminar) on "Summary/overview of the BPM-based energy spectrometer". This talk covers the activities of the collaboration within the last two years. The results obtained will be summarized in a report submitted as a LC note.

The contributions of the Meeting can be accessed from the Web-page  
<http://www-zeuthen.desy.de/main/html/aktuelles/workshops.html>

We welcomed the deep interest of N. Skachkov (Dubna) to join the group and to study the Method of Resonance Absorption in close collaboration with the Yerevan Physics Institute (Armenia).

The collaboration noted the serious progress in the magnetometer design and production as achieved due to successful financing of this part of the activity. Some final tests of the magnetometers will be at the beginning of 2005 under real conditions of an accelerator.

The next meeting is scheduled for the second half of May 2005 near Yerevan as proposed by V. Nikoghosyan. The collaboration acknowledged this suggestion.

V. Duginov and H.J. Schreiber

Dubna, October 30 2004