

Dear Colleagues,

It's once again nearly halfway between the collaboration meetings, which seems an appropriate time for an update. So here is a brief report on some of the major collaboration activities:

Status of Run 6

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On the BaBar side, the detector is in a good shape and continuing to collect data at high efficiency- with normal rate of required repairs and corrective actions. For the past month PEP-II has been operating in a more stable mode at and just above the peak luminosity of  $10^{34}$  /cm<sup>2</sup>/s. While running an e+e- machine in this luminosity regime is a major accomplishment by itself, unfortunately both the peak and integrated luminosities are still below the projected values for this time in the run. We have, thus far, integrated ~73/fb. The PEP-II colleagues, in addition to striving to integrate, are in the midst of preparing and performing a number of MD's in the remaining days of this run to understand the parameters of the machine, in preparation for future changes to bring about higher peak luminosity. These include implementation of the 90-degree lattice, which is a prerequisite for lowering the bunch length and reducing the vertical beta\* at the IP.

BaBar Physics at the Lepton-Photon 2007 conference

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BaBar contributed more than 50 new results to the Lepton-Photon conference 2007, which is currently being held in Daegu, South Korea. These results are mostly based on Runs 1-5 dataset, although a small set also includes the 1st 47/fb of the Run 6 data. The B factory results were presented in 6 plenary talks at the conference, 3 by BaBarians and 3 by Belle colleagues.

The BaBar talks are:

- >> Recent result on D0 mixing from BaBar - Bill Lockman (UC,Santa Cruz)
- >> CKM phase and CP Violation in B Decays - David Brown (LBL)
- >> Heavy quarkonium states - Ricchardo Faccini (Rome)

Two BaBar colleagues have also been invited independently to present talks at the meeting, some of which are based on BaBar measurements:

- >> Study of e+e- annihilation at low energies  
two-photon interactions - Vladimir Druzhinin  
(Novosibirsk)
- >> Charged leptons as probes of the SM -Mike Roney (Victoria)

See the conference website for their slides and information on other talks: [http://chep.knu.ac.kr/lp07/htm/s11\\_01\\_01.htm](http://chep.knu.ac.kr/lp07/htm/s11_01_01.htm)

The BaBar results include new measurements of D0 mixing parameters and a 1st measurement of Time-Dependent CP asymmetry in  $B^0 \rightarrow \rho^0 \rho^0$ , which helps improve constraints on the CKM angle  $\alpha$ .

As reported by Jim Olsen and David Kirkby in a posting in the Physics Analysis Hypernews, BaBar submitted its 300th paper last week.

Planning for Run 7 and Beyond:

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A major effort is underway to prepare the release for Run 7, which is hoped to be the final reconstruction code for the BaBar data. The code is expected to include many of the reconstruction improvements that were identified in the course of the reprocessing workshops in the winter and spring 07. This effort, which is led by Mike Kelsey in close coordination with Gregory and BaBar computing, is expected to provide a release for testing and validation by mid-October.

At the July meeting of the BaBar's International Finance Committee in Rome (July 26-27), we presented and received approval for the BaBar computing budget in 2008. We also presented BaBar's plan for the Intense-Analysis period beyond 2008 (2009-2011), which has also received general endorsement from the IFC.

Change of guard in BaBar Physics Analysis

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Finally, I would like to take this opportunity to acknowledge the outstanding leadership of BaBar's Physics Analysis Coordinator, Jim Olsen, in shaping and directing the physics program of the experiment in the past year. Jim's deep knowledge of BaBar and its physics program, together with his energetic leadership style and devotion to the experiment were absolutely essential to the success of our physics program and the continuation of BaBar's strong physics productivity. Please join me in expressing appreciation and congratulations to Jim for his tremendous contributions to the experiment, and in enthusiastically welcoming the incoming PAC Soeren Prell and deputy PAC Owen Long. Soeren is already at SLAC, and following BaBar's tradition, will officially take over as PAC after the Lepton-Photon conference in the last week of August.

With best regards,  
Hassan