

Dear Colleagues,

It is a pleasure to bring you the news that this past weekend PEP-II passed the peak luminosity of 10^{34} /cm²/s, a significant milestone for the B factory accelerator that has undergone major upgrades during the fall 2006 shutdown. This was achieved at reasonable background conditions, as demonstrated by the BaBar deadtime of about 2.5% in the past 24 hrs- http://bbr-onlwww.slac.stanford.edu:8080/babarcc/latest-run-24hr-beamdaq_landscape.gif

Congratulations to our PEP-II colleagues for their enormous effort in bringing up the machine to this point. We are now looking forward to smooth operations and the next steps planned for in the luminosity regime of 10^{34} /cm²/s.

A few words on other fronts:

1. As expected, BaBar's observation of D⁰ mixing, soon followed by a positive result from our Belle colleagues, was the highlight of the winter and spring physics conferences this year. This has also stimulated significant activity in the theoretical community, trying to interpret the results. There are still a number of very important measurements to come on this topic, aiming to pin down the parameters of D⁰ mixing and help shed light on its interpretation. A BaBar mini-workshop on D⁰ mixing has been organized on May 3rd- (see <http://babar-hn.slac.stanford.edu:5090/HyperNews/get/physAnal/3503.html>).

The next milestone for these measurements is the summer conferences, in particular the Lepton Photon conference in Korea (August 13-18th), where BaBar and Belle, each have been offered a "hot topic" plenary talk to present the D⁰ mixing results. Bill Lockman will present the BaBar results. This is in addition to our plenary talks on B physics and other topics.

2. In addition to D⁰ mixing, BaBar presented 35 new measurements at the winter and spring conferences. (see Jim Olsen's summary- https://oraweb.slac.stanford.edu/pls/slac/BABAR_DOCUMENTS.DetailedIndex?P_BP_ID=4947)

3. As announced by Gregory and Jim, the 3rd and final session of the re-processing workshop is planned for the morning of May 3rd- (see <http://babar-hn.slac.stanford.edu:5090/HyperNews/get/physAnal/3471.html>). The aim is to conclude on the assessment of the need and timing of the final reprocessing of the BaBar data, which is one of the major parameters that set the magnitude of the resources needed for BaBar computing in 2008 and beyond.

Best regards,
Hassan