

Dear Colleagues,

On Tuesday (May 1) morning, while preparing for a week-long shutdown to replace the vacuum chamber on the backward Q4 magnet, a malfunction in the power and cooling system of the Q2 magnet, which is located in the DIRC tunnel, resulted in overheating and subsequent damage to the magnet coils. A welded plug on the magnet popped, causing a water leak into BaBar, some of which found a pathway through the DIRC support tube to the front end of the detector, exiting between the EMC endcap and barrel.

Fortunately, a spare Q2 magnet exists and the PEP-II team is working on the replacement plan. It is expected that the Q2 work is likely to extend the length of the downtime by an additional week, depending on the logistics of working in the DIRC tunnel.

We are still assessing the extent of the impact of the water leak on BaBar. At this point we are aware of water leak on two EMC crates in the front end of the detector. The extent of the damage is not yet clear.

Water also dripped onto Sextant 4 LSTs, and over DIRC components. We have not seen any major damage on BaBar subsystems, but the search continues as we begin to turn on various subsystems.

Regular updates on the plan are posted to the detector operation Hypernews, where you can also find a description of the chronology of the events yesterday and the status this morning, (<http://babar-hn.slac.stanford.edu:5090/HyperNews/get/DetOper/5339.html>, <http://babar-hn.slac.stanford.edu:5090/HyperNews/get/DetOper/5340.html>). The logbook (<http://www.slac.stanford.edu/babar-internal/shift/index>) also provides up to date information on BaBar activities. We will also continue to update the collaboration when repair schedule is better understood.

Best regards,  
Bill and Hassan