The PCU calibration optics have been delivered from Meadowlark and they are installed in the PCU. The PCU is now complete. The only remaining task is the determination of the axes of the polarization optics in their mounts. An optical setup to do has been configured and that task is currently in progress. This should be completed by October 17. Following that, the PCU will be packed to await shipping at a time to be determined by LMASL and Stanford.

This past month has seen further progress on reducing the number of observations necessary during polarization calibration of HMI. Photon noise has been added to the models dealing with polarization calibration. Programming has started for the determination of the error matrix associated with the telescope Mueller matrix using Monte Carlo modeling.

The study of the ability to retrieve the vector magnetic field information from HMI data has been completed. We are now working on a document to provide a detailed description of the results. This document will be an important reference for the scientific community once the HMI data will become available. We intend to present these results both as an internal report and as a publication in a journal.

J. Schou attended the Solar Polarization Workshop held at NCAR and took the opportunity to work with A. Norton and D. Elmore on HMI calibration issues.

Steven Tomczyk, Oct 14, 2005