Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 08.04.2014

(16:00 in Room 459/30b)

SESAME: A Dream Becomes Reality

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Abstract

In the early 1990 a group of scientists from CERN proposed a research center in the Middle East to promote science and piece in the region. In 1997 when BESSY II had been built up the idea came to reality when A. Voss and H. Wineck initiated the transfer of BESSY I to the Middle East which became the starting point for SESAME (Synchrotron Light for Experimental Science and Application in the Middle East). The project suffered for long time from the lack of funds, untill 2012 when Iran, Israel, Jordan and Turkey committed to contribute 5M USD each and a further contribution from the EU/CERN of 10M EUR for the magnet system of the storage ring, which now allowed the building up the facility. In the meantime the concept has changed, instead the 0.8 GeV BESSY I storage ring a completely new 2.5 GeV storage ring with 8–fold DBA structure and 26 nmrad emittance has been foreseen with the BESSY I Microtron and Booster-Synchrotron further of use. The building of SESAME had been finished in 2008, the BESSY I Microtron is in operation since 2012. The Booster will be commissioned this year. All main components for the storage ring are ordered and the commissioning of the storage ring is foreseen for 2016. The presentation will report about the status and the foreseen built up of SESAME.

J.Roßbach (Univ. HH) and M.Vogt (MFL).