Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 12.07.2016

(16:00 in Room 459/30b)

The AREAL Facility — Status and Highlights.

Vasili Tsakanov

CANDLE Synchrotron Research Institut
Yerevan, Armenia

Abstract

The Advanced Research Electron Accelerator Laboratory (AREAL) is a project of 20–50 MeV energy electron linear accelerator with a laser driven RF gun being constructed at the CANDLE Synchrotron Research Institute. During 2012–2014 the construction of the 5 MeV RF photogun section of the facility was completed, which provides up to 300 pC bunch charge with a variable electron bunch length from 0.4 to 8 psec. In 2015 the experimental program on life and materials sciences at the new facility was launched. AREAL aims to serve as a facility both for applied research and experimental study in the fields of advanced accelerator technology and radiation sources. A review of the facility performance, the experimental program and highlights of its development are presented.

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