Joint DESY and University of Hamburg Accelerator Physics Seminar

Wednesday, 05.08.2020 16:00

ZOOM video seminar (needs version 5.0+)

Assembly and Installation of the ESRF-EBS

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Abstract

The ESRF-EBS is already operating with the required specifications (6 GeV, 200 mA and 135 pmrad). The first design of the storage started in 2012 and was official approved in 2014. According to the time schedule of 2014 the assembling of the new machine should start in November 2017 and finished one year later. The installation should start in in January 2019 and should also finish one year later. The commissioning should start at the end of 2019. There were no delays and the commissioning started at the end of November 2019. Within this seminar a detailed description of the assembling and installation will be presented with a presentation of the required buildings, tools, manpower, as well as the logistics. Overall 32 achromats with 4 girders of 22 magnets and 12 vacuum chambers per girders had to be assembled. The assembling was done in 3 steps: A.) the assembling of the magnets on the girders, B.) the assembling of the vacuum system, and C.) the introduction of the vacuum system into the magnets with the overall alignment. Concerning the installation, the sequence of steps, the different tasks, the required manpower and the different tools will be presented. The most time consuming for the installation was the piping which was done by a contracting company. Maintaining the schedule for the assembling and installation was only possible with the excellent ESRF-team.

NOTE THE UNUSUAL DATE

W.Hillert, (Univ. HH), I.Agapov (MPY) and M.Vogt (MFL).

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