

# GFA - PSD Accelerator Seminar

## The High Energy Photon Source Project

**Monday, 30 September 2019, 16.00 h, Auditorium**

***Haisheng XU, IHEP/HEPS***

The High Energy Photon Source (HEPS), a 6 GeV green-field diffraction-limited storage ring light source, is under construction in Beijing, China. The facility consists of a 500 MeV LINAC, a booster for ramping beam energy to 6 GeV, and an ultra-low emittance storage ring. The storage ring is based on a modified hybrid seven-bend achromat (H-7BA) design, where bending magnets with reverse bending angles and longitudinal gradients are adopted to reach an ultralow natural emittance (below 100 pm) with a circumference of 1360.4 m. The central slice of the dipole in the middle of the modified hybrid 7BA, with flexible magnetic field, is used as the source of the bending-magnet beamline. Moreover, alternating high- and low- beta straight sections are specially designed to generate and deliver X-ray synchrotron radiation with high brightness. Here, the overview of the HEPS storage ring design, as well as the status of the project will be presented.

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