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Speaker

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SPS-II: A 4th Generation Synchrotron Light Source in Southeast Asia

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Siam Photon Source II (SPS-II) will be the first and only 4th generation synchrotron light source in South-East Asia region upon its completion. The accelerator complex consists of a 150 MeV linac and 3 GeV booster synchrotron combination acting as an injector, and a 3 GeV electron storage ring based on a modified 6 Bend Achromat (6BA) lattice. The modified 6BA, or Double Triple Bend Achromat (DTBA) lattice, is adopted because the emphasis is put on maximum utilization of the medium-size storage ring. It is planned that several components will be manufactured domestically. A half-cell prototype of the SPS-II storage ring was successfully developed, demonstrating the domestic fabrication capability. In this talk, the details of the machine design along with prototype development will be described.

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