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Status of the Solaris 1.5 GeV Storage Ring

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The Solaris is a third generation light source constructed in Poland consisting of a 600 MeV linear injector and 1.5 GeV storage ring. The layout of the storage ring is based on a novel Double Bend Achromat (DBA) magnets designed in MAX-IV Laboratory in Sweden. During the commissioning phase of the Solaris storage ring the performance of this innovative concept has been succesfully verified and obtained parameters allowed to start the commissioning of the first beamline. The beam diagnostics and instrumentation system is beased mostly on 36 quarter-wave button BPMs spreaded along the ring what allowed to measure and monitor several beam parameters like closed orbit, tune, chromaticity, disperssion, orbit response durin the commissioning and operation phases. The results of the the latest machine optimization including the orbit correction, linear optics measurements and beam-based alignment will be presented.

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