

About XBPMs for SOLEIL upgrade

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SOLEIL Synchrotron has an upgrade plan to replace its storage ring by a new one based on multi-bend (7/4BA) achromat lattice. To fulfil the new tight requirements, most beam diagnostics will have to be replaced, or at least refurbished and improved. Among them are the X-ray Beam Position Monitors (XBPMs). Located on each beamline front-end, they enable to measure the position of the photon beams before their delivery to downstream users. The present XBPMs rely on four tungsten or copper blades operated in photo-emission mode. We will present a brief state-of-the-art of the existing or under-study XBPM systems, summarize the limitations our systems are presently facing, and introduce our strategy for the upgrade.

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