

WP5:

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The working group supports actions for the preparation of a proposal for a 4th generation X-ray source in Russia. The working group discussed briefly the various options for very high brightness X-ray sources and their rapid development in recent years (storage rings featuring a MBA lattice, XFELs). V. Korchuganov mentioned plans for a Specialized Synchrotron Radiation Source - SSRS-4, a multi-turn accelerator – recuperator with very high brightness and coherence. The conclusion was that the selection of a particular source concept should be driven by a science case defining the use of this source. The working group suggested a strategy for the production of such a science case driven by the needs of the Russian scientific community, starting with an open workshop in Russia in early spring 2016. This should assist the production of a “white paper” in autumn 2016, outlining the scientific need and mission for a fourth generation Photon Source to be constructed in Russia.