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SYLA accumulator ring status

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Two 4th generation synchrotron radiation sources will be in Russia soon. One of it is 3 GeV SKIF in Koltsovo and the another one is 6 GeV SYLA in Protvino (former SSRS-4 and USSR). Both were digned for equilibrium horizontal beam emittance is about 70 pm. The current activities on the SYLA project will be presented. As in most similar state-of-the-art facilities, electron beams will be injected into the SYLA storage synchrotron from a linear resonant accelerator with an energy of 6 GeV (top-off injection), which will also be a driver for the free electron laser. In order to obtain high beam lifetime as well as dynamic aperture, optimization of magnets and high order multipoles was performed.

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