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## Radiation Damage Studies of Silicon Photomultipliers in Neutrons Field of IBR-2

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It is reported on the study of radiation resistance of silicon photomultipliers (SiPM) produced by HAMA-MATSU. SiPM was irradiated in neutron fluxes of the reactor IBR-2 of JINR. The tested SiPM received fluence from 1012 up to  $2 \times 10^{14}$  of neutrons/cm<sup>2</sup>. Irradiated detectors investigated using a radioactive source and laser flashes at a temperature of -300C. The measurements showed that the SiPM remain fully functional as photon detectors up to neutron fluence  $2 \times 10^{14}$  despite a significant increase in noise.

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