## Na-K-Sb photocathodes for high brilliant electron beams

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The goal of the Sealab/bERLinPro project is to build a new generation superconducting RF electron accelerator at HZB. Na-K-Sb photocathode deposited on Mo plug is chosen for this application for its high QE at green laser, long dark lifetime and high thermal stability.

Currently, Na-K-Sb photocathodes are produced in UHV preparation chamber at photocathode lab. In the contribution, we will share our experience for film growth (2 recipes), as well as the QE, dark lifetime and thermal stability on Na-K-Sb photocathodes. Besides, we would also like to give an introduction of the update of preparation system at photocathode lab.

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