

## Recent Progress on advanced photocathode operation in SRF Guns

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As well known, the quality of the photocathodes is critical for the stability and reliability of the gun operation. In last years, thanks to the developed photocathode technology, several SRF guns were successfully used for beam operation at kHz-MHz repetition rate. In this presentation, we will together view the achievements as well as open questions for the reliable SRF gun operation, and discuss the possible improvement of photocathodes in the future application.

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**Session Classification:** Guns