

Photoinjectors @ Mainz

Stimulus Address



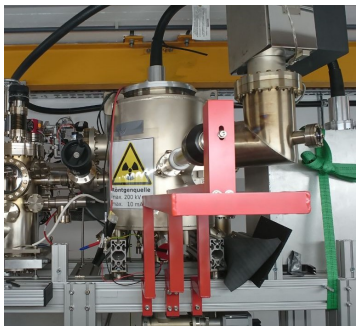
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10th July 2023





PKA-Type



STEAM-Type

operation @100 keV



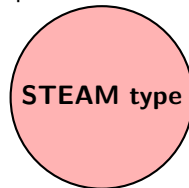
split insulator

operation @100 keV

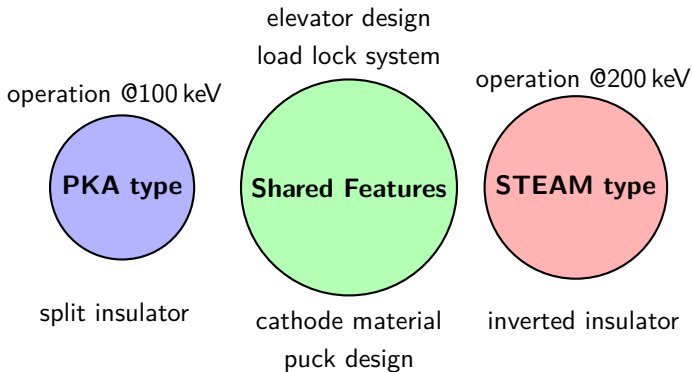


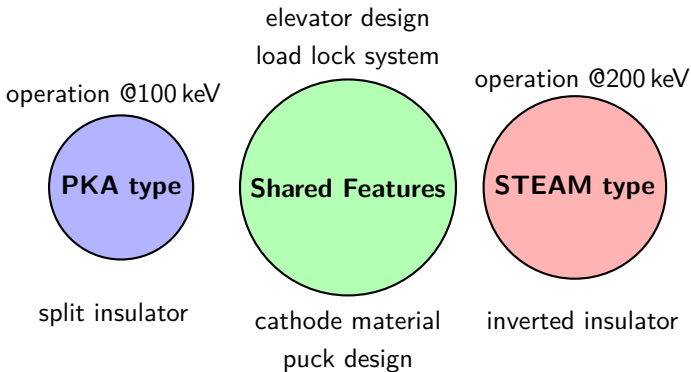
split insulator

operation @200 keV



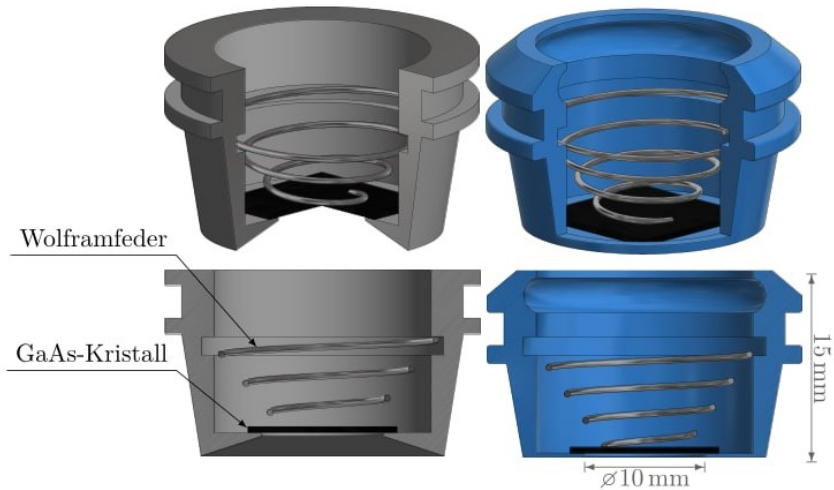
inverted insulator





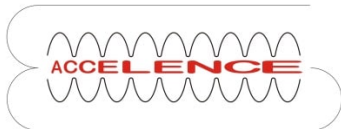
PKA: K. Aulenbacher, C. Nachtigall, et al., *Nuclear Instruments and Methods in Physics Research Section A: Accelerators Spectrometers Detectors and Associated Equipment* **1997**, 391, 498–506

STEAM: S. Friederich, K. Aulenbacher in Proc. IPAC'15, JACoW Publishing, Geneva, Switzerland, pp. 1512–1514



Source: S. Friederich, PhD thesis, Johannes Gutenberg-Universität Mainz, 2019

Thank you very much for your attention!



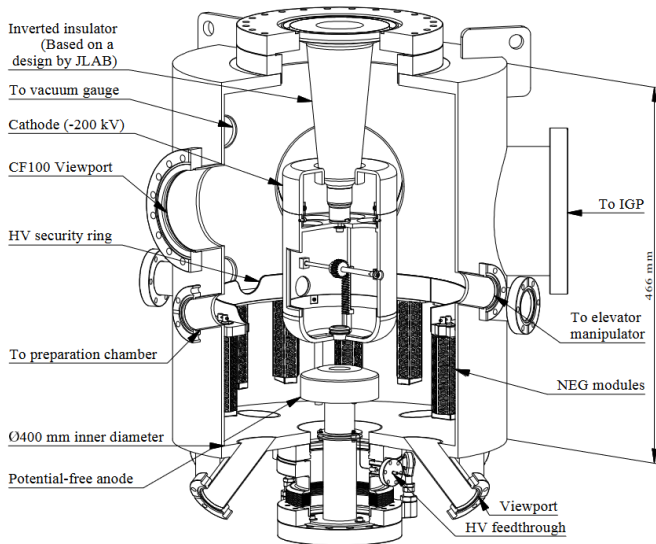
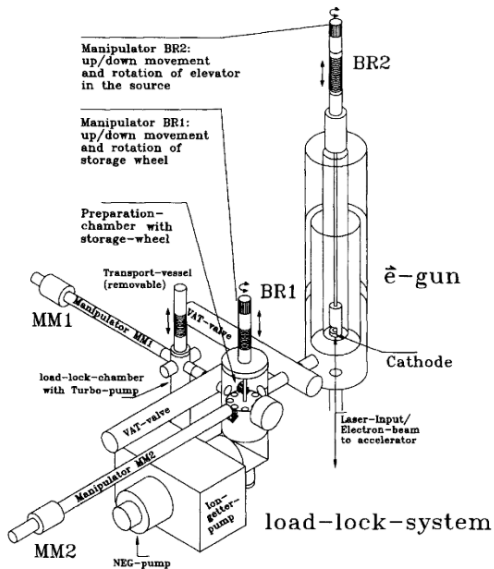


Figure 1: CAD-model of the Small Thermalized Electron source At Mainz (STEAM).



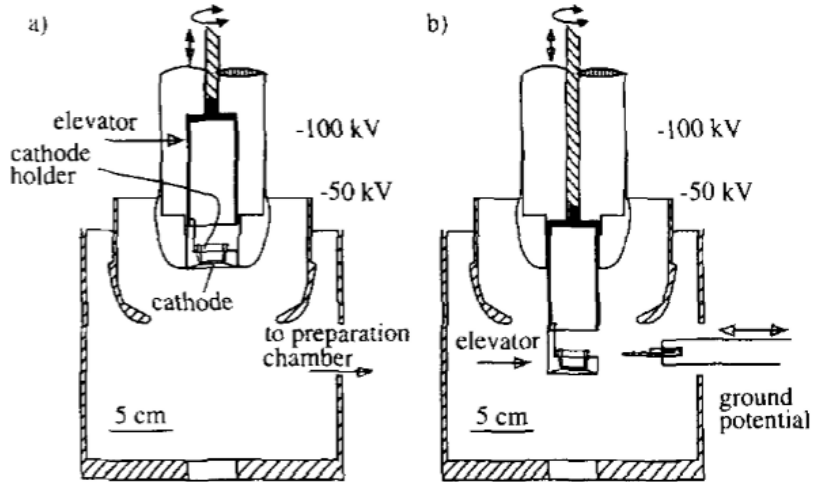


Fig. 1. (a) Section through the electrode configuration of the 100 keV electron gun; (b) elevators in down position.