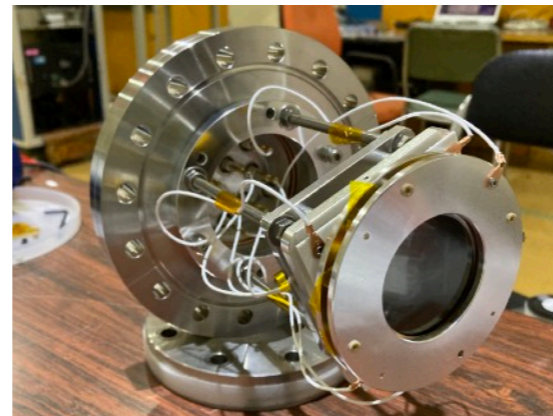
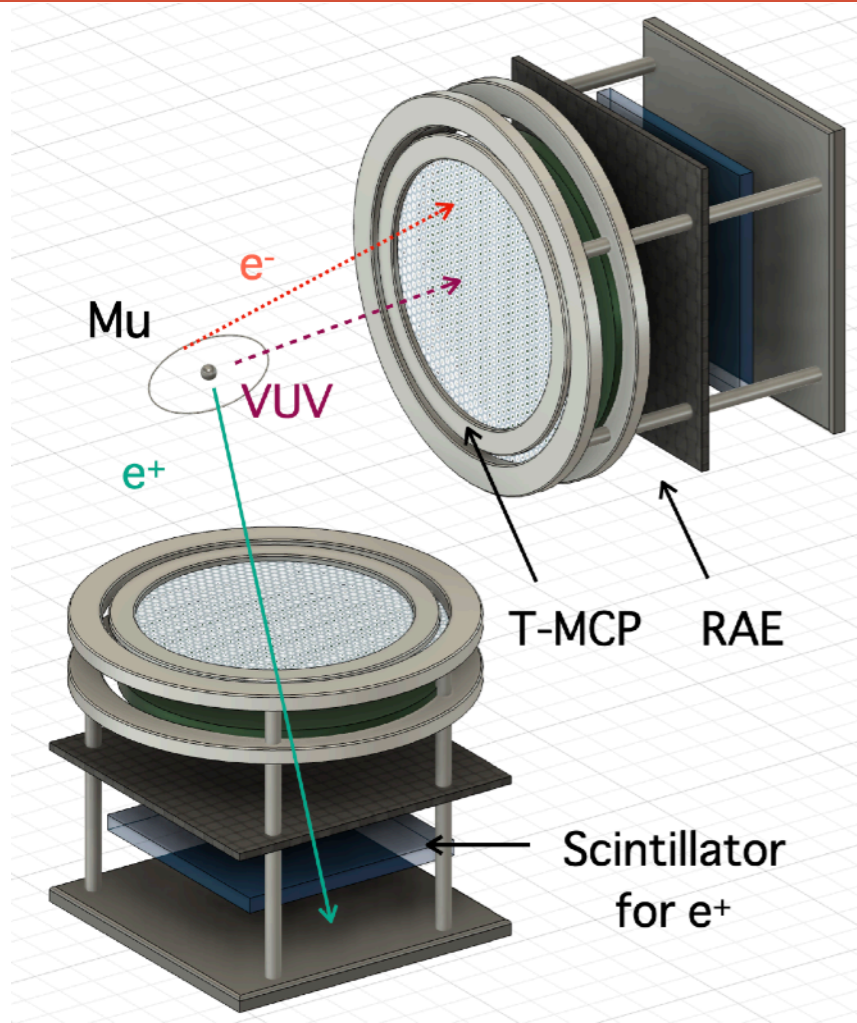
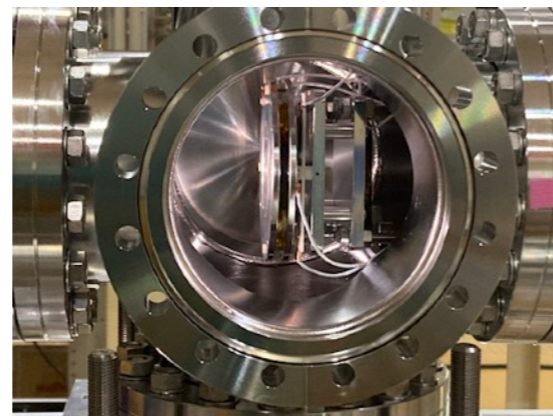


Development of a Multi-particle Imager for Exotic Atom Spectroscopy and Interferometry

Sohtaro Kanda (KEK), Adam Powell (CERN),
Kyo Tsukada (Kyoto Univ.), Yue Ma (RIKEN), Shiro Matoba (KEK)

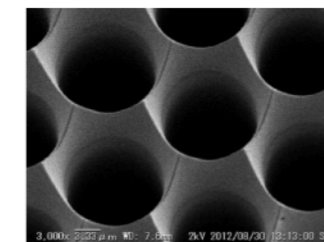


Detector prototype

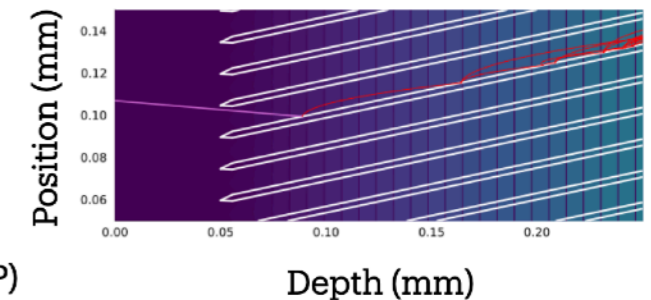


Inside the chamber

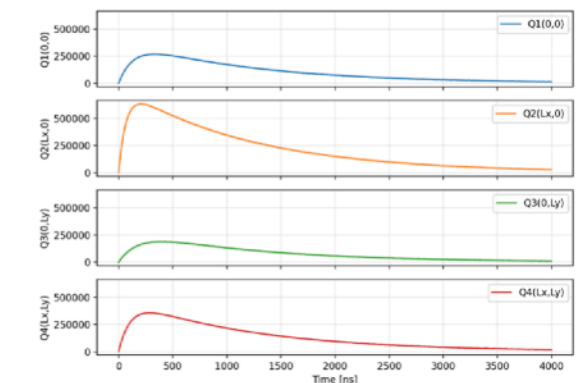
- An imaging detector for low-energy particles and vacuum ultraviolet photons.
- High detection efficiency and resolution for next generation exotic atom experiments.
- Simulations and testbeam results are presented.



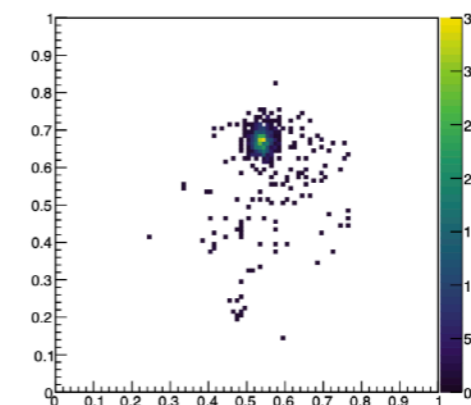
Tapered MCP (T-MCP)
OAR=90%



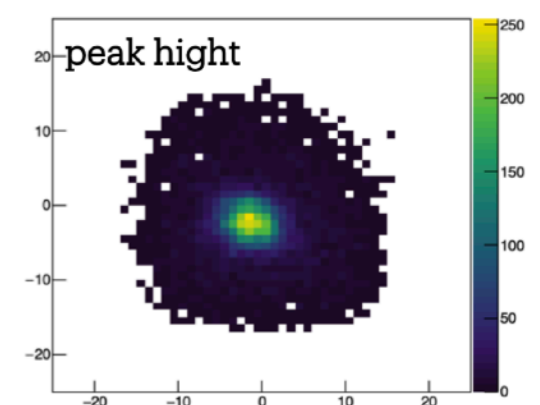
Resistive anode
encoder (RAE)



Anode signal waveforms



VUV photon imaging



Electron imaging