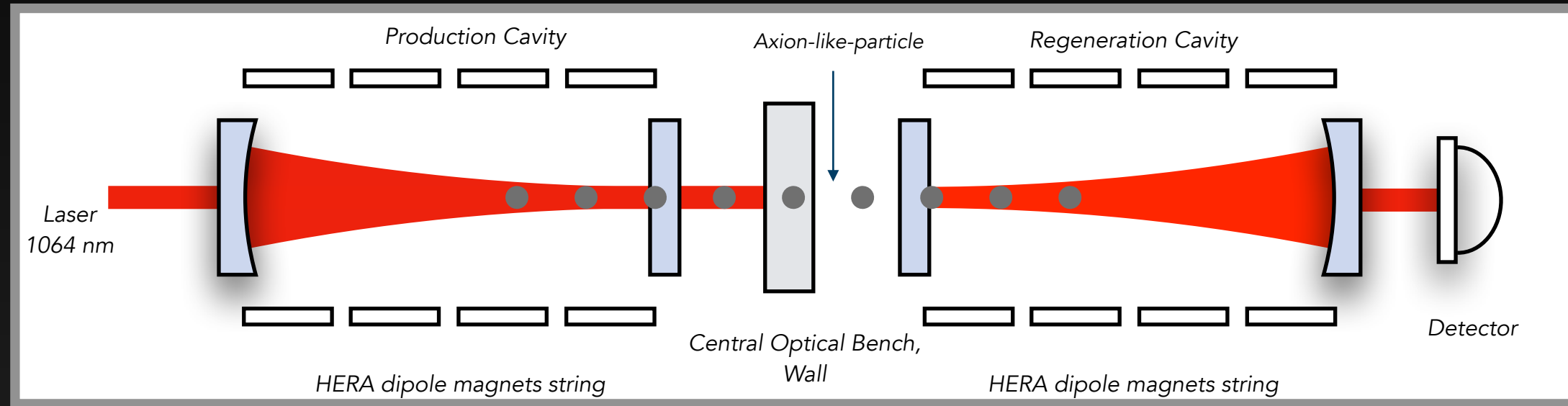
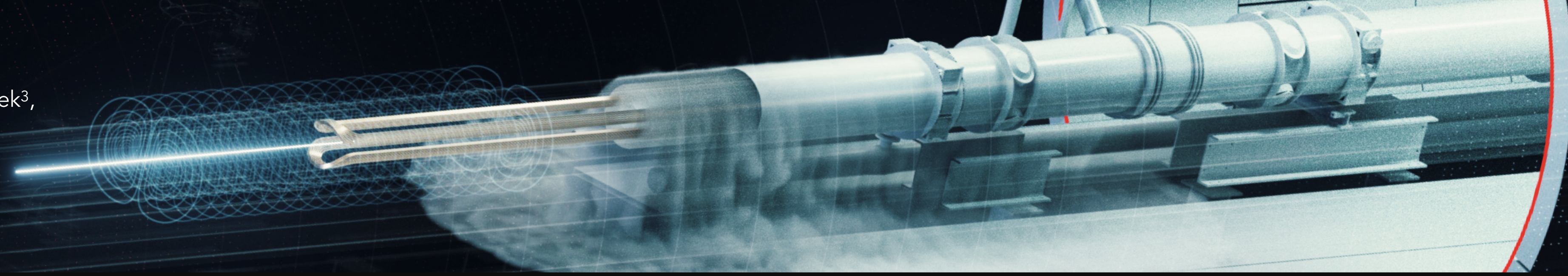


A TES for ALPS II

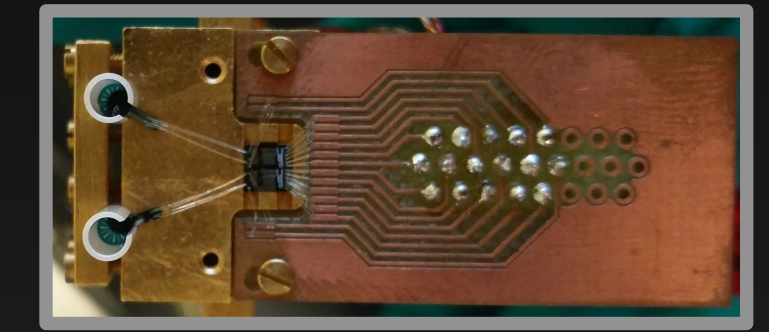
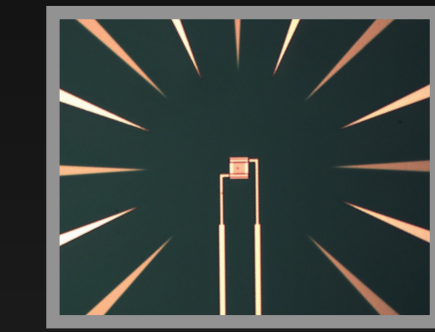
Rikhav Shah¹, Katharina-Sophie Isleif², Friederike Januschek³,
Axel Lindner³, Manuel Meyer,⁴ Gulden Othman⁴,
Matthias Schott¹, Christina Schwemmbauer³,
José Alejandro Rubiera Gimeno³

for the ALPS Collaboration



Low signal rate of 1064 nm photons
Low energy single photon detection (~1 eV)
High detection efficiency and resolution
Low background rate ($< 10^{-5}$ cps!)

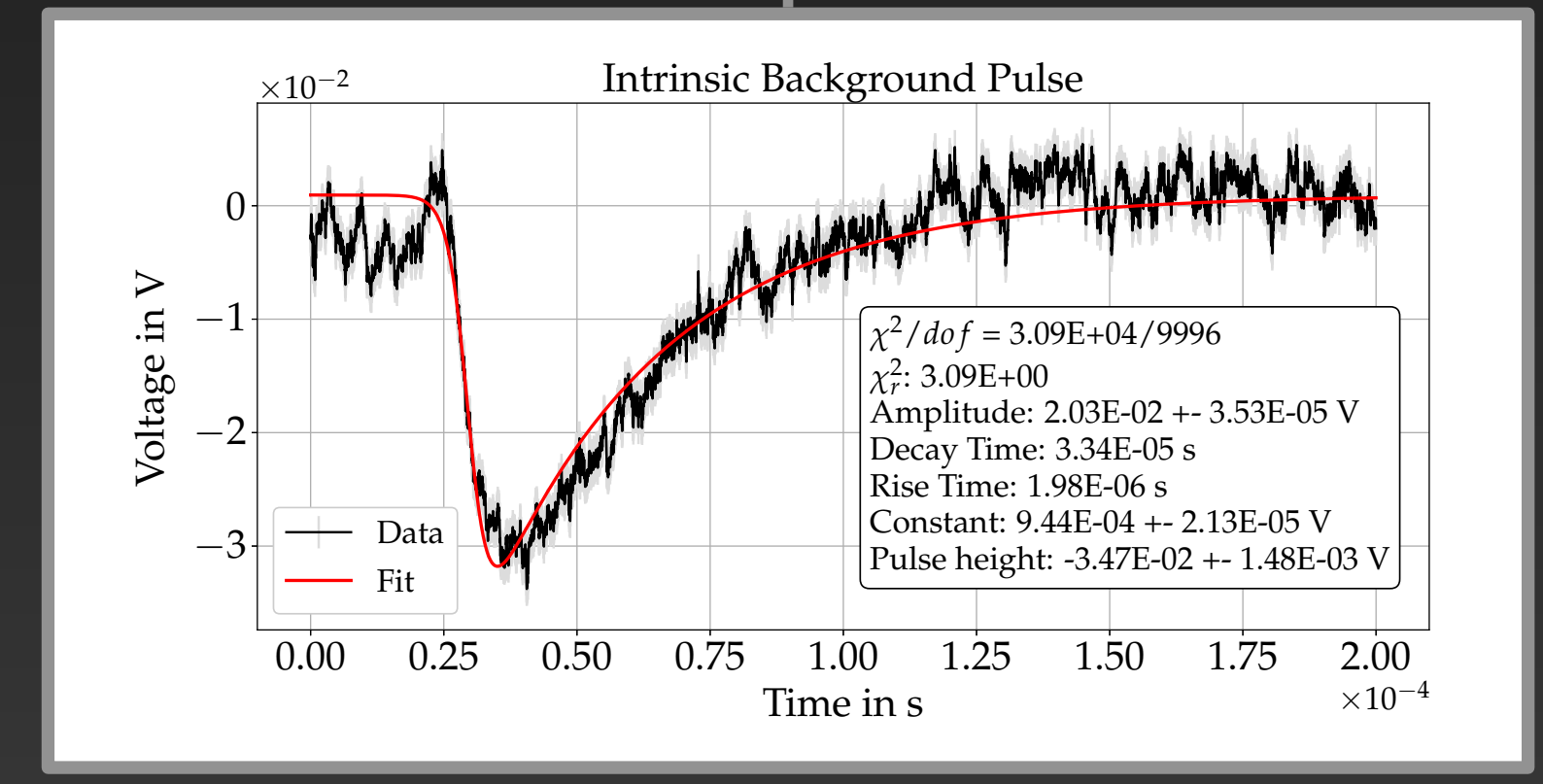
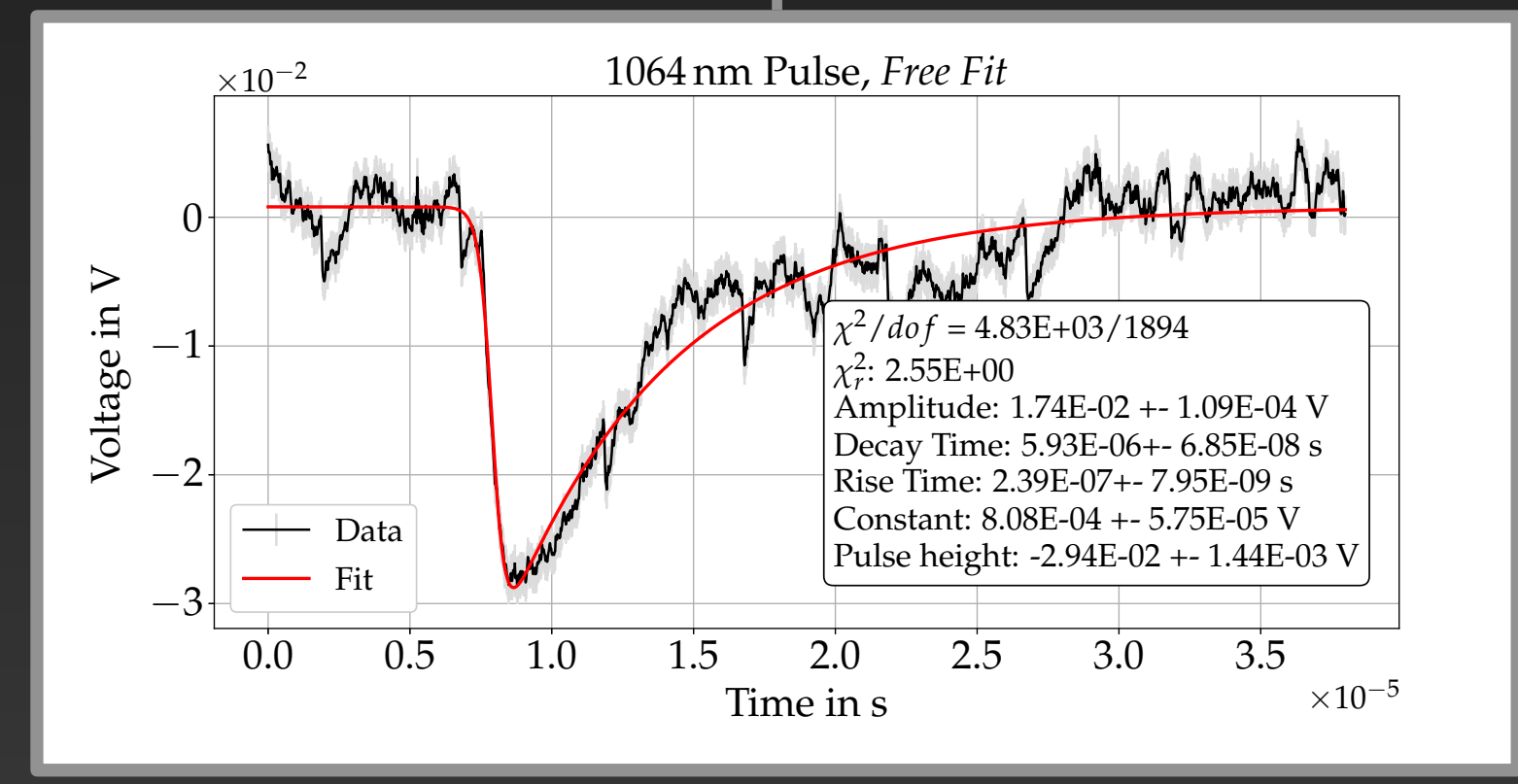
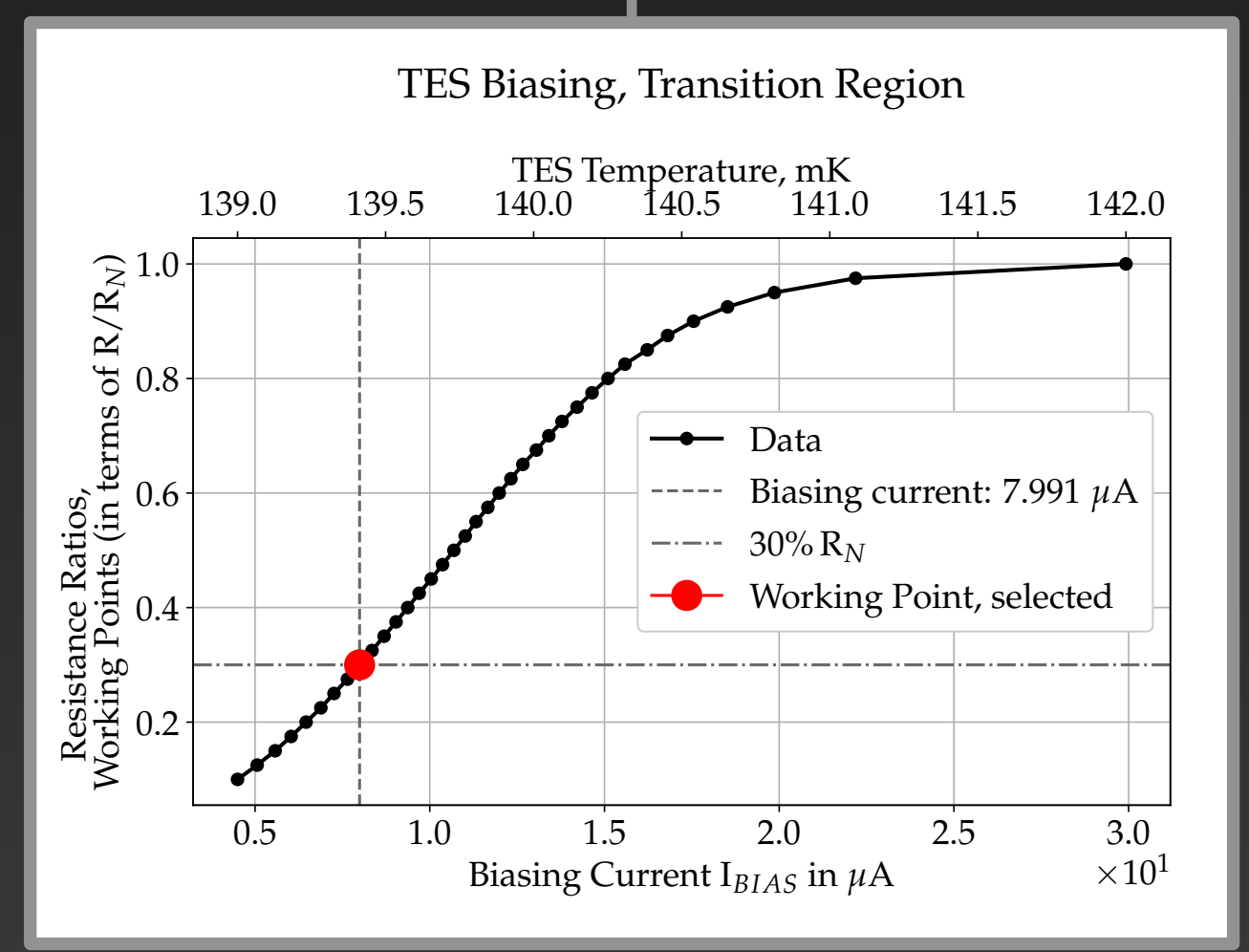
TES:
Superconducting Microcalorimeter



Operation

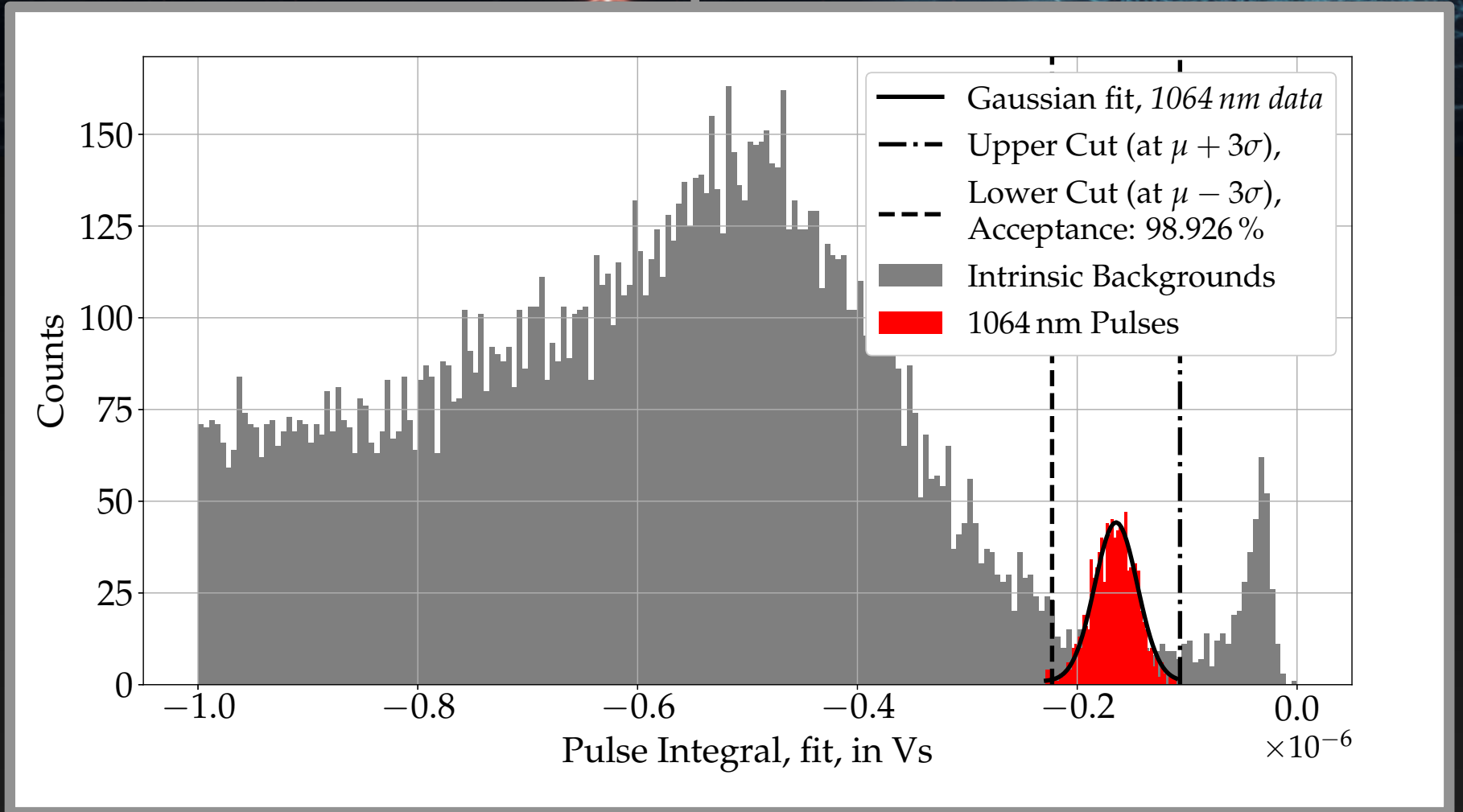
Signal & Pulse Characterisation

Background Pulses

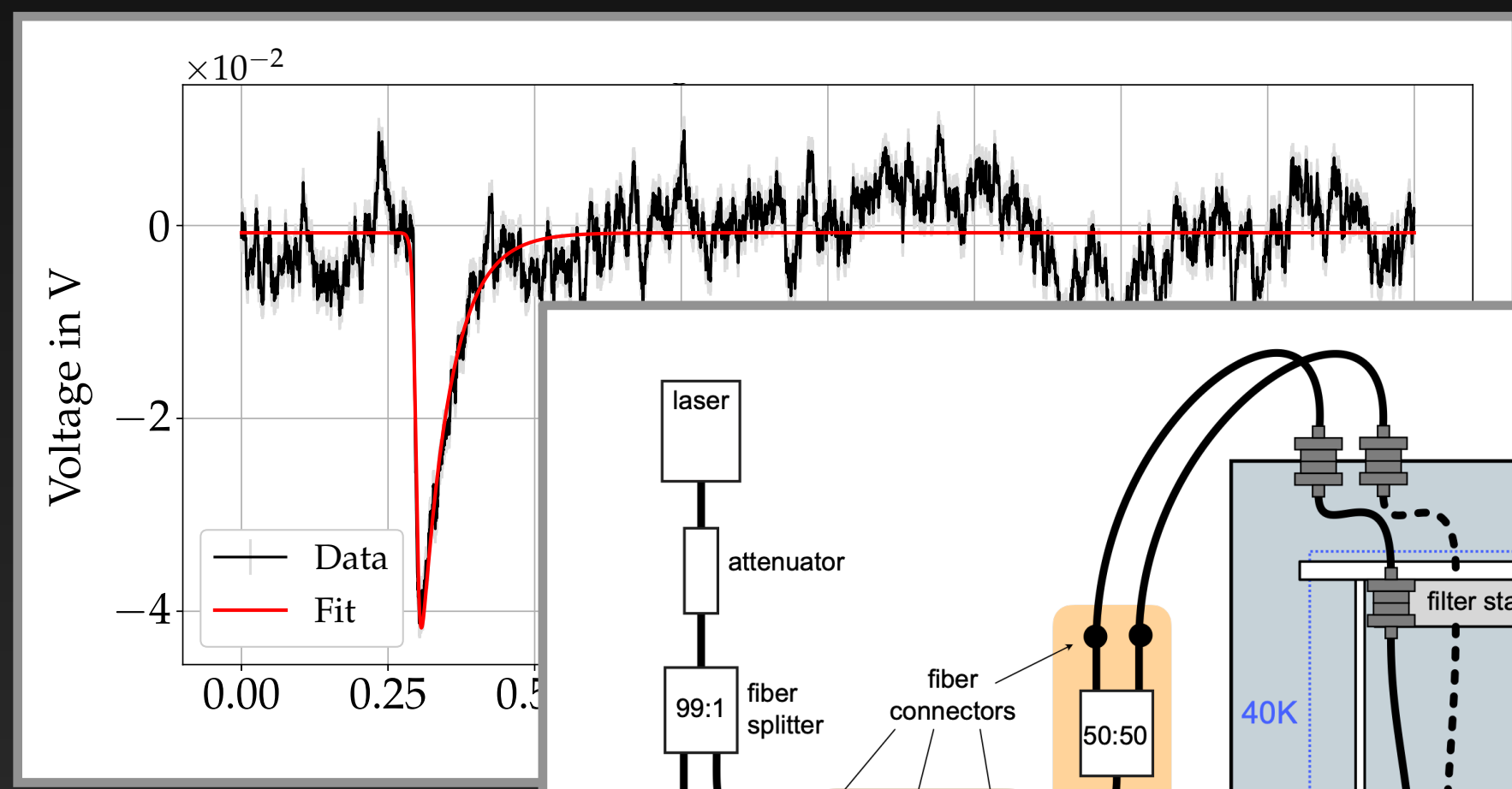


A TES for ALPS II

Pulse Selection: Cuts



Other Backgrounds, Efficiency, and more!



Low (intrinsic) dark rate

