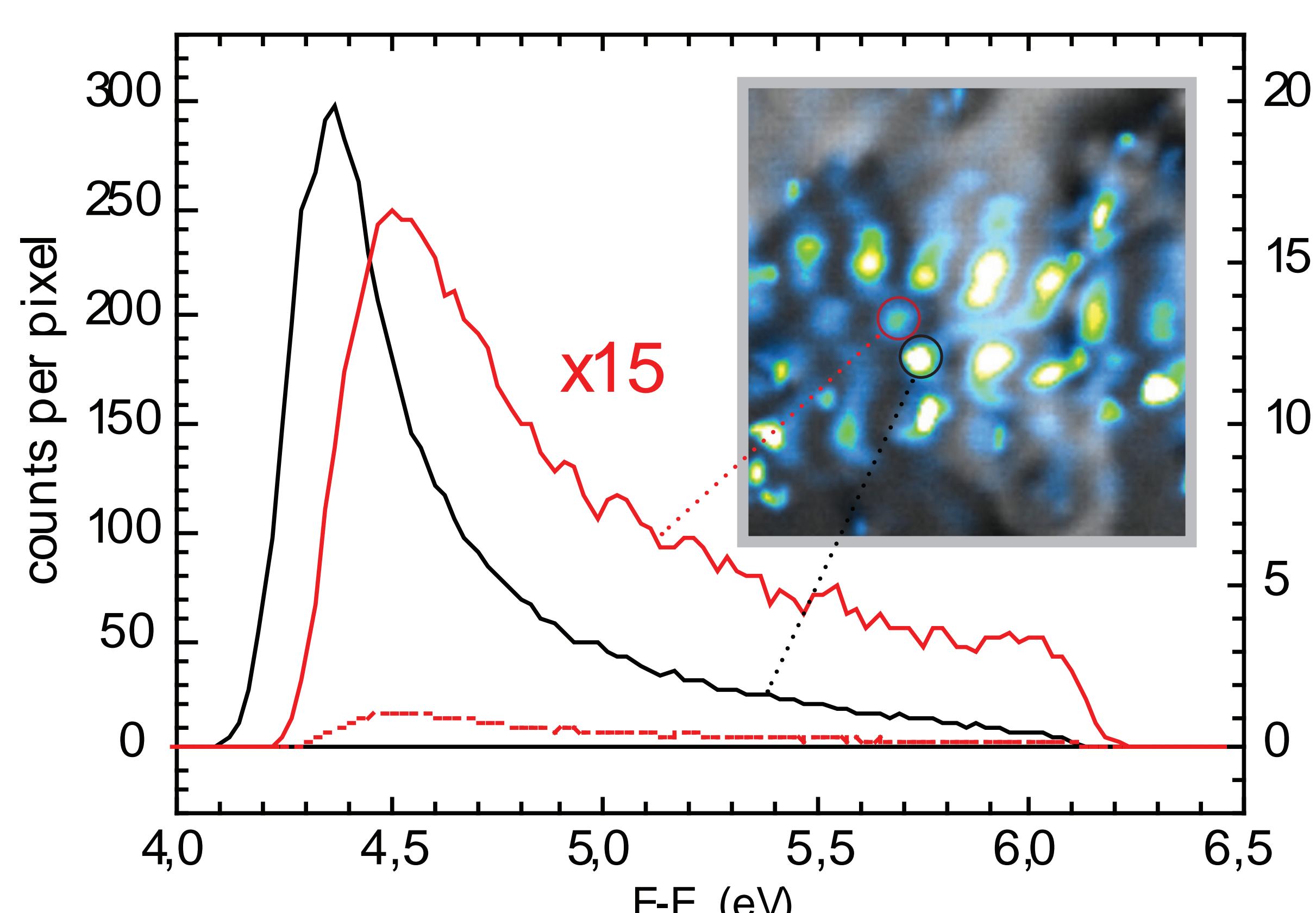
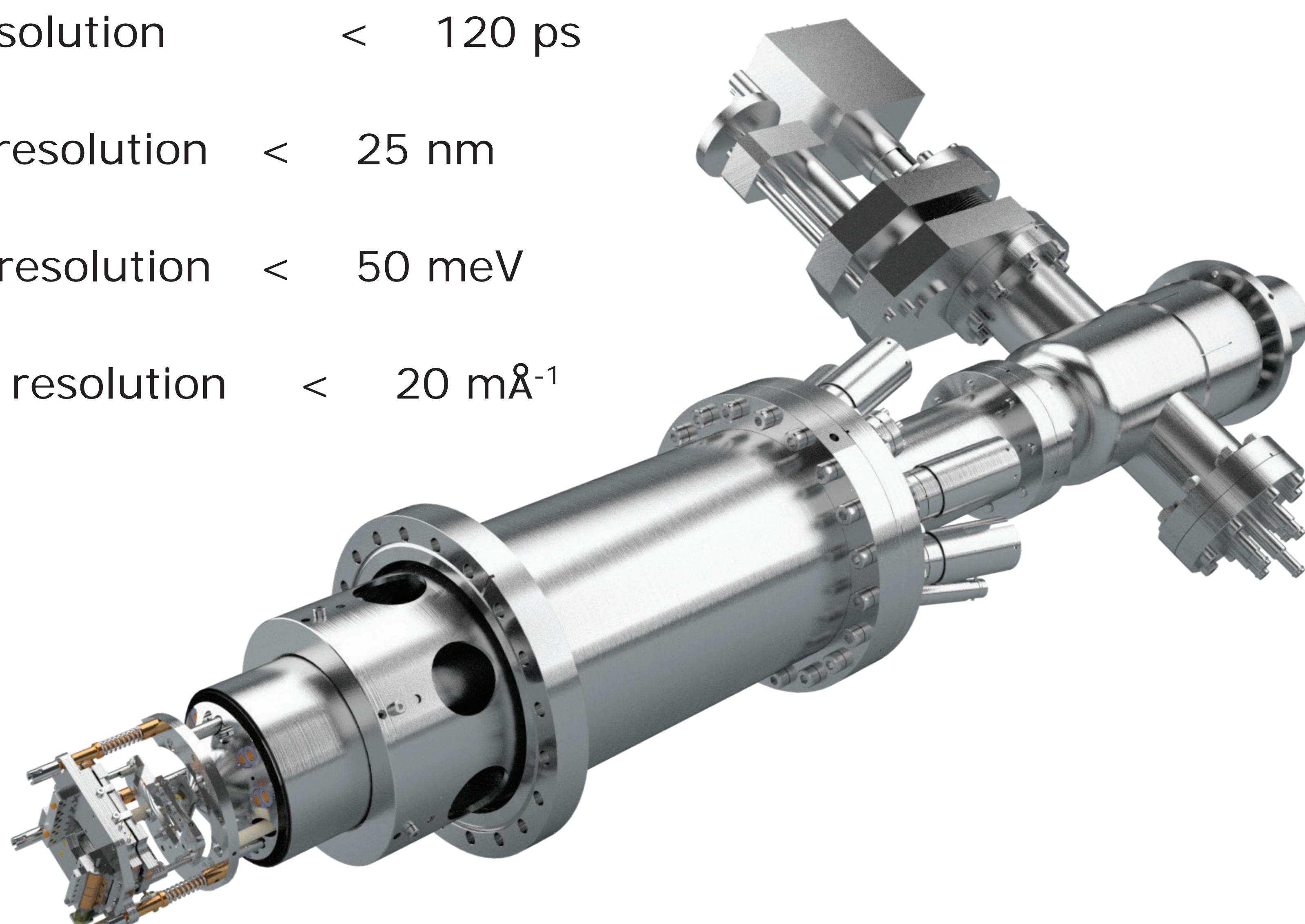


FOCUS TOF-PEEM

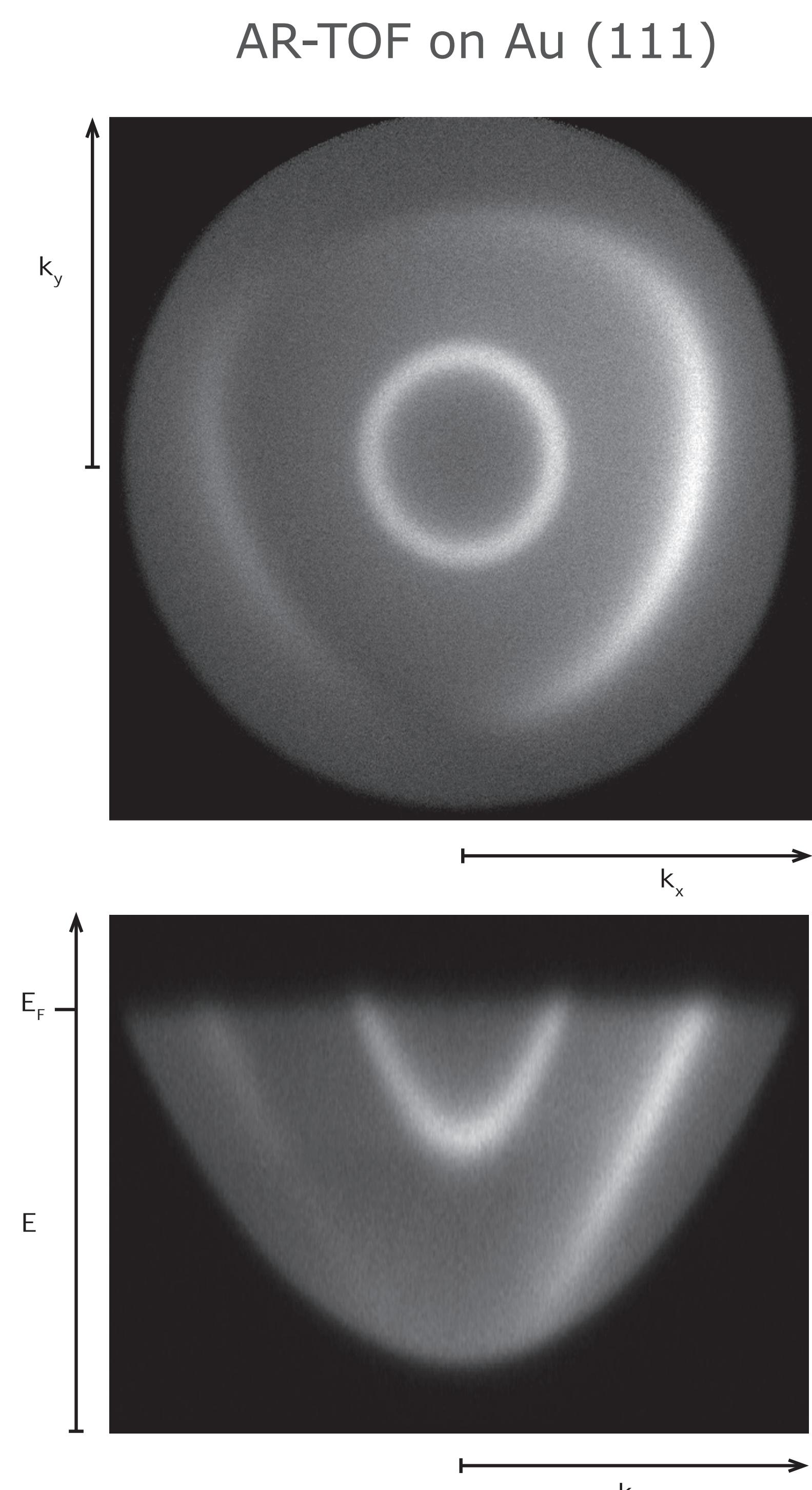
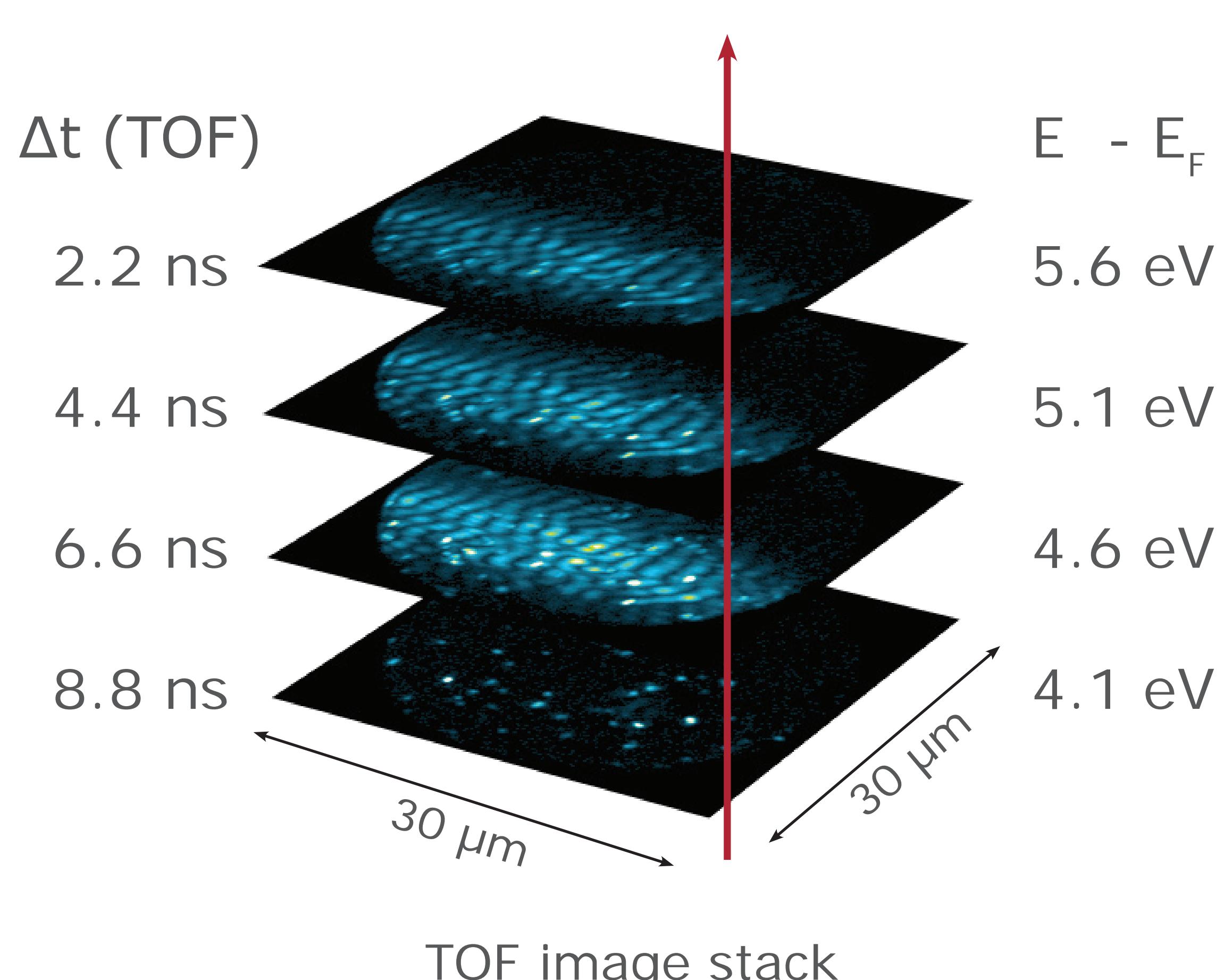
TIME OF FLIGHT MICROSCOPY

Key Features

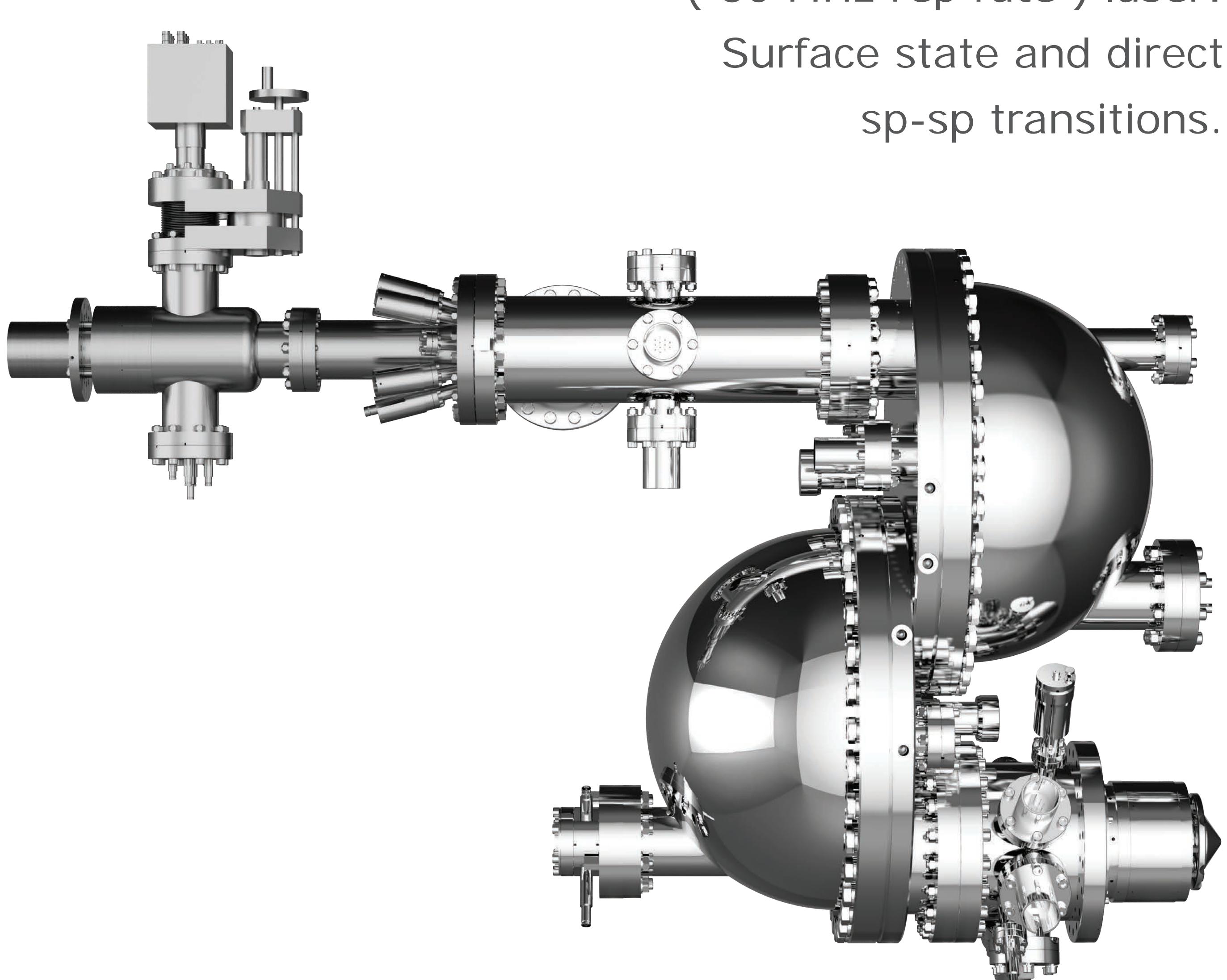
- Time resolution < 120 ps
- Lateral resolution < 25 nm
- Energy resolution < 50 meV
- k-space resolution < 20 mÅ⁻¹



TOF spectra of two different plasmon regions



Above: Complete k-space of the photoemission from a Au (111) surface (room temperature), excited with a 210 nm (80 MHz rep rate) laser: Surface state and direct sp-sp transitions.



New: Combination of the imaging double hemisphere (IDEA) with TOF detection for ultimate efficiency of TOF microscopy at high binding energies (patent pending).

