BESSY III HR-RIXS Beamline (91 vs. 93 m; with SU)

Mirror Coating Reflectivity @ 0.75° incident angle 1.0 -8.0 8.0 Reflectivity [a.u.]
0
0
9 0.6 0.4 0.2 0.0 <del>+</del> 0.0 0.2 3000 500 1000 1500 2000 2500 0.4 0.6 8.0 1.0 Energy [eV] Flux curve @1.2 µm ExitSlit Transmitted Bandwidth @1.2 µm ExitSlit HR-RIXS 93m HR-RIXS 91m Photon flux [%] 1500 Energy [eV] 2000 1000 500 1000 2500 3000 500 1500 2000 2500 3000 Energy [eV] Resolving Power @ 1.2 µm ExitSlit Flux Density 1e6 3.0 2.5 2.5 Photons per µm² [%] 0.1 0.1 0.1 2.0 g = [a.u.] 1.5 g 1.0 0.5 1000 2000 2500 1000 3000 500 1500 500 1500 2000 2500 3000 Energy [eV] Energy [eV] Horizontal Focus Size Vertical Focus Size HR-RIXS 93m 0.18 18 -HR-RIXS 91m 0.16 [ 0.14 10 · 0.12 8 HR-RIXS 93m 0.10 - HR-RIXS 91m 1500 Energy [eV] 1500 Energy [eV] 500 1000 2000 2500 3000 500 1000 2000 2500 3000