

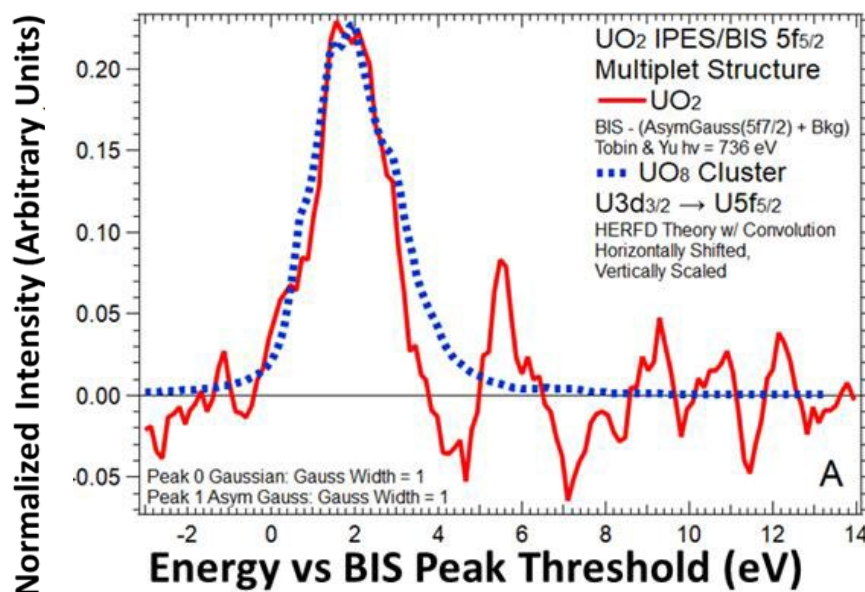
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Isolating Multiplet Structure in 5f Inverse Photoemission

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It will be shown that the multiplet structure of the $5f_{5/2}$ manifold, caused by angular momentum coupling in the final state, can be extracted from the Inverse Photoelectron Spectroscopy (IPES) and Bremsstrahlung Isochromat Spectroscopy (BIS) of uranium dioxide and plutonium dioxide. Comparisons between the extracted components and x-ray absorption calculations performed using Ligand Field Density Functional Theory (LFDFT) are presented and discussed.



Here a comparison of the BIS extracted peak at $h\nu = 736$ eV and the M_4 HERFD/XAS calculations is presented.

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