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Abstract

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Resonant photoemission at the 5p and 4f thresholds of mercury

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Abstract

Resonances in the photoemission intensities of the mercury 5d orbitals have been observed for thin films of mercury for incident photon energies near the $5p_{3/2}$, $4f_{7/2}$ and $4f_{5/2}$ thresholds. The results indicate that interband transitions from the 5p and 4f levels to the 5d orbitals can occur for solid Hg, though such interband transitions are forbidden for the free isolated Hg atom. The resonances are attributed to the formation of a solid state band structure incorporating new itinerant mercury electronic states.

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