

Abstract Submitted
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Band Structure Studies of in situ Deposited C₆₀ and the Effects of Doping DREW LATZKE, University of California, Berkeley and Lawrence Berkeley National Laboratory, CLAUDIA OJEDA-ARISTIZABAL, California State University Long Beach, Department of Physics and Astronomy, JONATHAN DENLINGER, Lawrence Berkeley National Laboratory, ALEX ZETTL, ALESSANDRA LANZARA, University of California, Berkeley and Lawrence Berkeley National Laboratory — We present electronic band structure studies of the unique system of in situ deposited thin film C₆₀ on a bulk substrate through high-resolution angle-resolved photoemission spectroscopy (ARPES) measurements. We discuss the electronic band structure in relation to novel phenomena recently found in other low-dimensional samples. Finally, we investigate the doping dependence of the thin film C₆₀ band structure as we deposit dopants on the surface in situ.

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