

Abstract Submitted  
for the MAR16 Meeting of  
The American Physical Society

**Observation of angle resolved bands of C<sub>60</sub> by photoemission spectroscopy** CLAUDIA OJEDA-ARISTIZABAL, Dept. of Physics and Astronomy California State University, DREW LATZKE, Dept. of Physics Univ. of California Berkeley, Lawrence Berkeley National Laboratory, JONATHAN DELINGER, Advanced Light Source, Lawrence Berkeley National Laboratory, ALEX ZETTL, ALESSANDRA LANZARA, Dept. of Physics Univ. of California Berkeley, Lawrence Berkeley National Laboratory — The band structure of a C<sub>60</sub> thick film deposited in-situ on a crystalline surface is studied by angle resolved photoemission spectroscopy (ARPES). We observe the presence of a well-defined low energy diffraction pattern (LEED) and dispersive HOMO bands, suggesting a crystalline arrangement of the C<sub>60</sub> molecules. The momentum and photon energy dependence of these bands is presented.

Claudia Ojeda-Aristizabal  
Dept. of Physics and Astronomy California State University

Date submitted: 25 Nov 2015

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