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Bulk-like electronic structure at the surface of epitaxial 
La$_{1-x}$Sr$_x$MnO$_3$ films

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present direct measurements of the electronic structure of La$_{1-x}$Sr$_x$MnO$_3$ (LSMO) 
using a combined molecular beam epitaxy and angle-resolved photoelectron spec-
troscopy system. Our results allow for the first comparison between theory and ex-
perimental results over the entire Fermi surface in the ferromagnetic-metallic phase. 
We observe both of the predicted Fermi surface sheets, and find that the evolution 
of the Fermi surface shape with doping is consistent with a rigid-band shifting of 
the chemical potential. Measurements in the antiferromagnetic phase at $x > 0.5$ 
allow us to determine the changes in the low energy electronic structure linked to 
the magnetic phase transition. The ability of this surface sensitive technique to 
probe the bulk electronic structure of LSMO limits the possible depth of a surface 
dead layer. This conclusion is supported by density functional theory calculations 
for LSMO slabs, which indicate that the polarity of the (001) surface is efficiently 
screened within $\sim$1 unit cell.

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