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Electronic Structure of Silicene Studied by Angle Resolved Photoemission Spectroscopy LIN ZHAO, YA FENG, ZHUOJIN XIE, National Lab for Superconductivity, Institute of Physics, Chinese Academy of Sciences, BAOJIE FENG, State Key Laboratory for Surface Physics, Institute of Physics, Chinese Academy of Science, XU LIU, DEFA LIU, National Lab for Superconductivity, Institute of Physics, Chinese Academy of Sciences, KEHUI WU, State Key Laboratory for Surface Physics, Institute of Physics, Chinese Academy of Science, SHAOLONG HE, GUODONG LIU, LI YU, National Lab for Superconductivity, Institute of Physics, Chinese Academy of Sciences, CHUANGTIAN CHEN, ZUYAN XU, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, XINGJIANG ZHOU, National Lab for Superconductivity, Institute of Physics, Chinese Academy of Sciences — Silicene, similar to its counterpart of graphene, has generated a great interest. We have prepared silicenes on Ag(111) substrate and carried out angle resolved photoemission spectroscopy measurements on them. We will report on the electronic structure of silicene with different reconstruction configurations and discuss its implications.

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