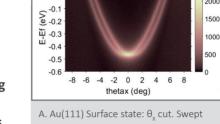
Application Note

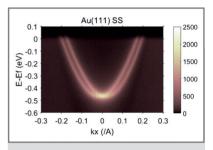
Au(111) with DA30-L deflection mode and VUV5k

As proof of performance and as part of the characterization of their new DA30-L and VUV5k ARPES system the Prof Bing Wang group of **University of Science and Technology of China** have measured a Au(111) sample. The data shows a well resolved surface Shockley state with the characteristic spin split parabola. Using the DA30-L deflection mode a full data set was acquired without rotation of the sample. This is illustrated by the graph showing a series of parallel $k_{y}-k_{y}$ cuts in momentum space.



mode acquisition.

Au(111) SS



B. Au(111) surface state: k_x cut. Swept mode acquisition.

Measurement settings: Sample temperature: 90 K Angular mode: DA14L-01

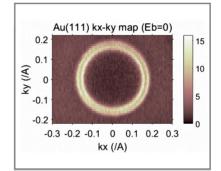
Analyser slit: 400

Prof. Bing Wang

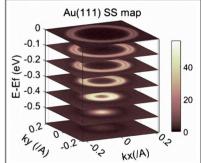
Analyser pass energy: 5eV

Data courtesy:

University of Science and Technology of China. Operator: Xiaochuan Ma (maxc@mail.ustc.edu.cn)



C. Au(111) k,-k, map at Eb=0. Fixed mode, deflection mode acquisition.



D. Au(111) surface state map. Fixed mode, deflector mode acquisition.

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