Contribution ID: **29** Type: **not specified**

Growth of lead and gold layers on top of new quasi-freestanding phase germanene

Wednesday, 13 March 2024 17:20 (5 minutes)

Using low-energy electron diffraction (LEED) and angle-resolved photoemission spectroscopy (ARPES) techniques, we studied germanene on Ag(111) and divided our results into three parts:
1.At higher annealing temperatures, two new quasi-freestanding phases (QP) germanene, referred to as new QP1 and new QP2, were grown and compared with the QP R30° prevoously discovered.
2.Growth of two different monolayer Pb layers on the two new QP phases.
3.Au atoms infiltrate the Pb layer to form a special Au layer on new QP1 with the same lattice constant, 3.5Å, of the Pb layer, rather than the pristine one, 2.89Å.

Primary author: TINGHAO, Huang (0956577522)

Presenter: TINGHAO, Huang (0956577522)

Session Classification: Poster

Track Classification: Poster section