

Description of Additional Supplementary Files

Title: Supplementary Movie 1.

Description: Translation and rotation of quasi-van der Waals bonded Au islands on MoS₂. Au nanoislands on MoS₂ recorded in STEM ADF conditions at room temperature. Small translations and rotations of the islands show the weakness of the bond between Au and MoS₂. The beam current was 9.44 pA and the scan area was 115 nm x 115 nm. 1k x 1k images were recorded at 6.31 seconds/frame, 32.5 mrad convergence angle, and 1.125 Å pixel spacing.