

ID: P1.16

Title: Simulation of surface damage from ion irradiation

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Molecular Dynamics Simulation was used to model Cu [110] surface being bombarded by Ar atoms at 0.5keV. The surface damage was analysed and compared to experimental STM data to validate the results and provide additional information on the formation process. Good agreement was found with experiment. Simulation shows influence of sub surface stress waves on the damage formation process.