



Contribution ID: 150

Type: **Poster**

【188】 Convergent beam electron diffraction of adsorbates on graphene

Tuesday 5 September 2023 19:05 (1 minute)

Convergent beam electron diffraction (CBED) on 2D materials provides a method for high-resolution imaging of individual particles deposited on a 2D material. A single-shot CBED pattern combines a diffraction pattern and a defocused image of the sample. We are investigating the optimal experimental imaging conditions for CBED of nanoparticles deposited on graphene. CBED allows regulating the radiation dose deposited into the sample by moving the sample within the probing convergent beam. This allows us to establish the resolution limits of the technique as a function of the required radiation dose.

Theoretical Work

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Session Classification: Poster Session

Track Classification: Condensed Matter Physics (KOND)