

金沢大学重点戦略経費
政策課題対応型研究推進セミナー

Understanding of diamond electronic junctions and interfaces via atomic and Kelvin force microscopy

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場所： 自然科学2号館 2A416

概要：

- Introduction of Institute of Physics and my group
- Principles of AFM/KFM, advantages and limitations
- Deducing electronic and opto-electronic properties, band diagrams
- Atomic surface terminations of diamond (hydrogen, oxygen)
- Ohmic, Schottky, and organic diamond junctions
- Recognition of covalent links in diamond-organic systems
- Differences and similarities of intrinsic and boron doped diamonds
- Differences and similarities of mono- and nano-crystalline diamonds
- Towards applications (opto-electronics, bio-electronics, self-assembly)

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