

Moiré-Modulated Superconductivity and Edge States in a Spiral-Magnetic NiI₂/NbSe₂ Heterostructure



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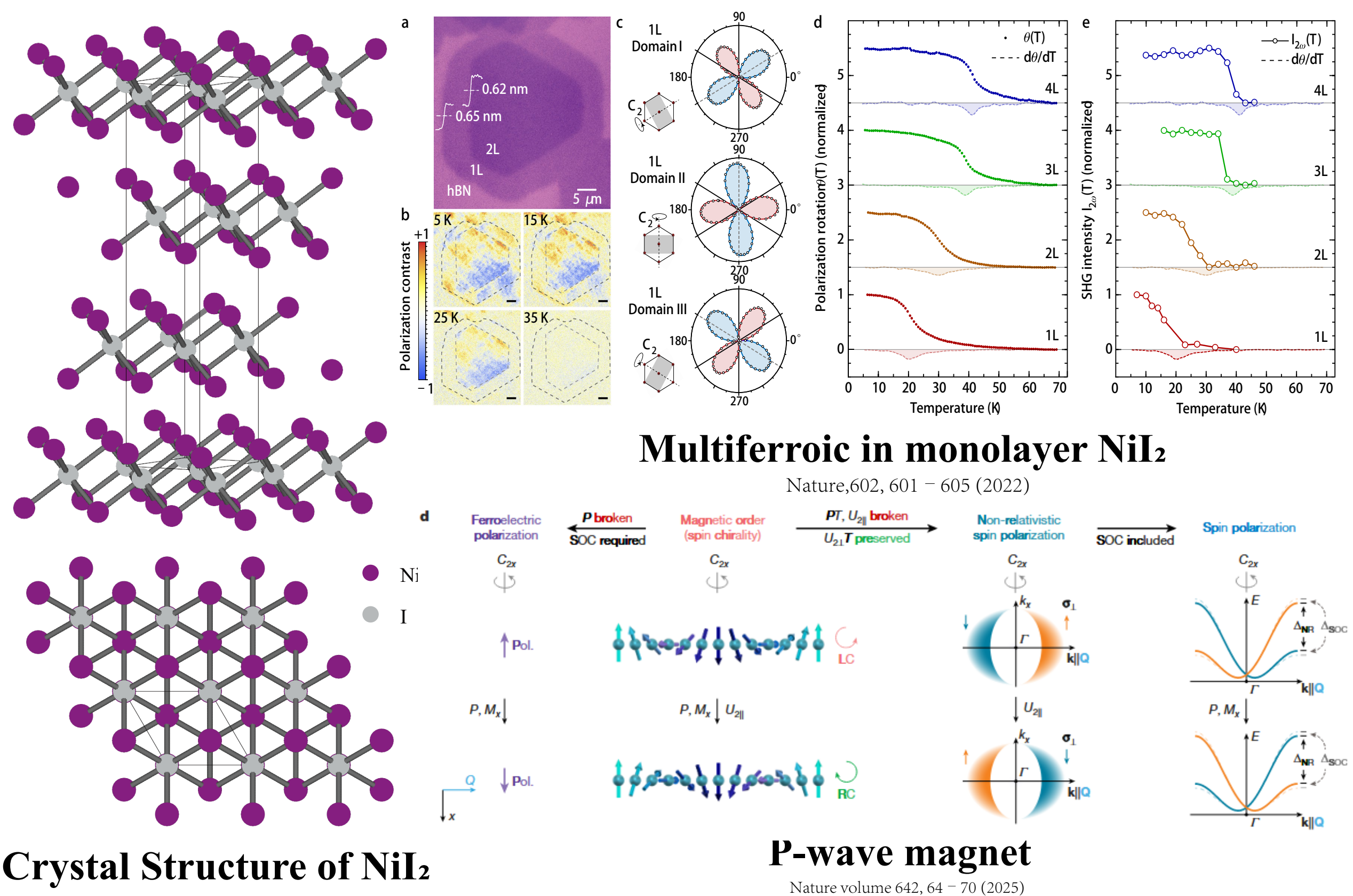
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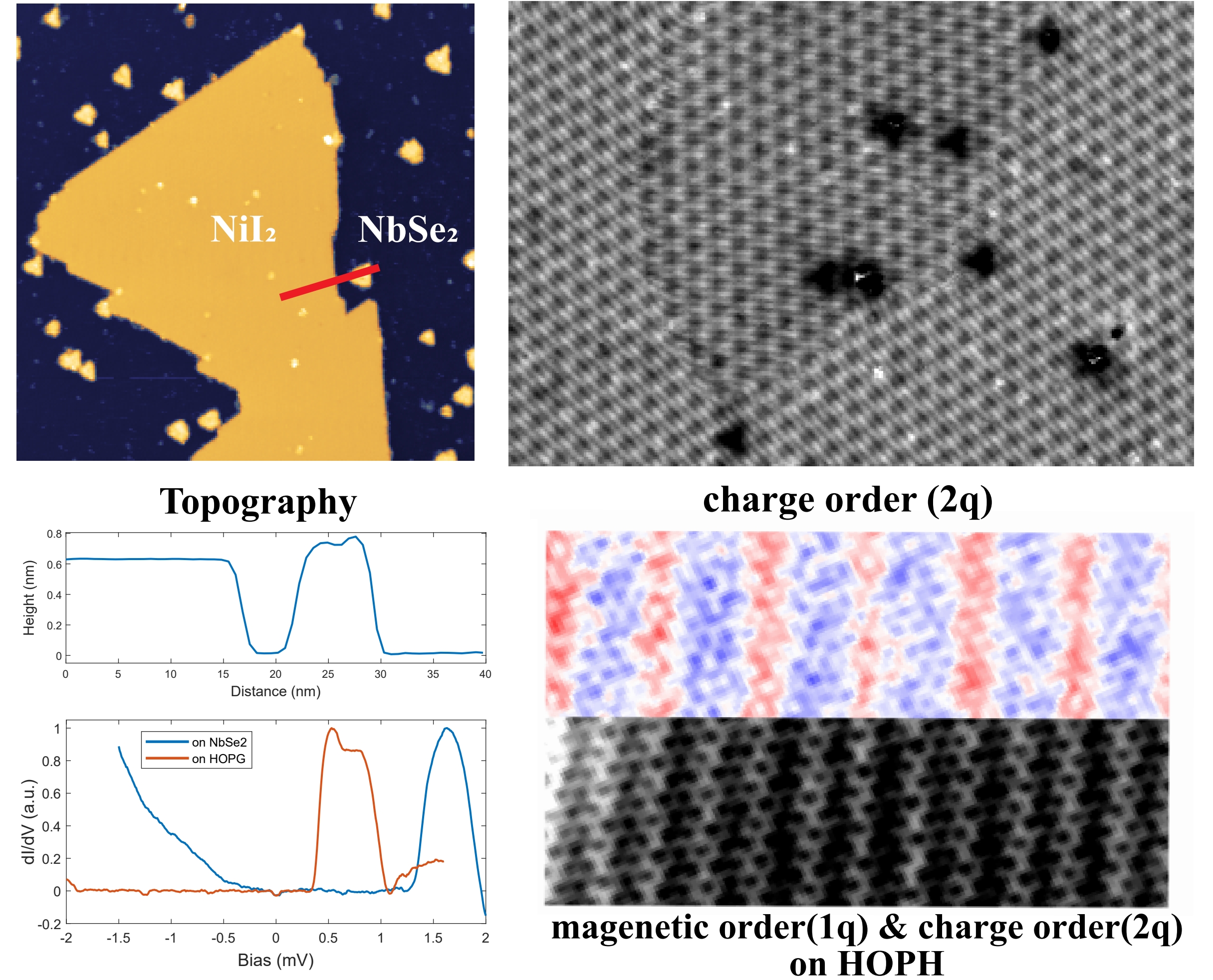


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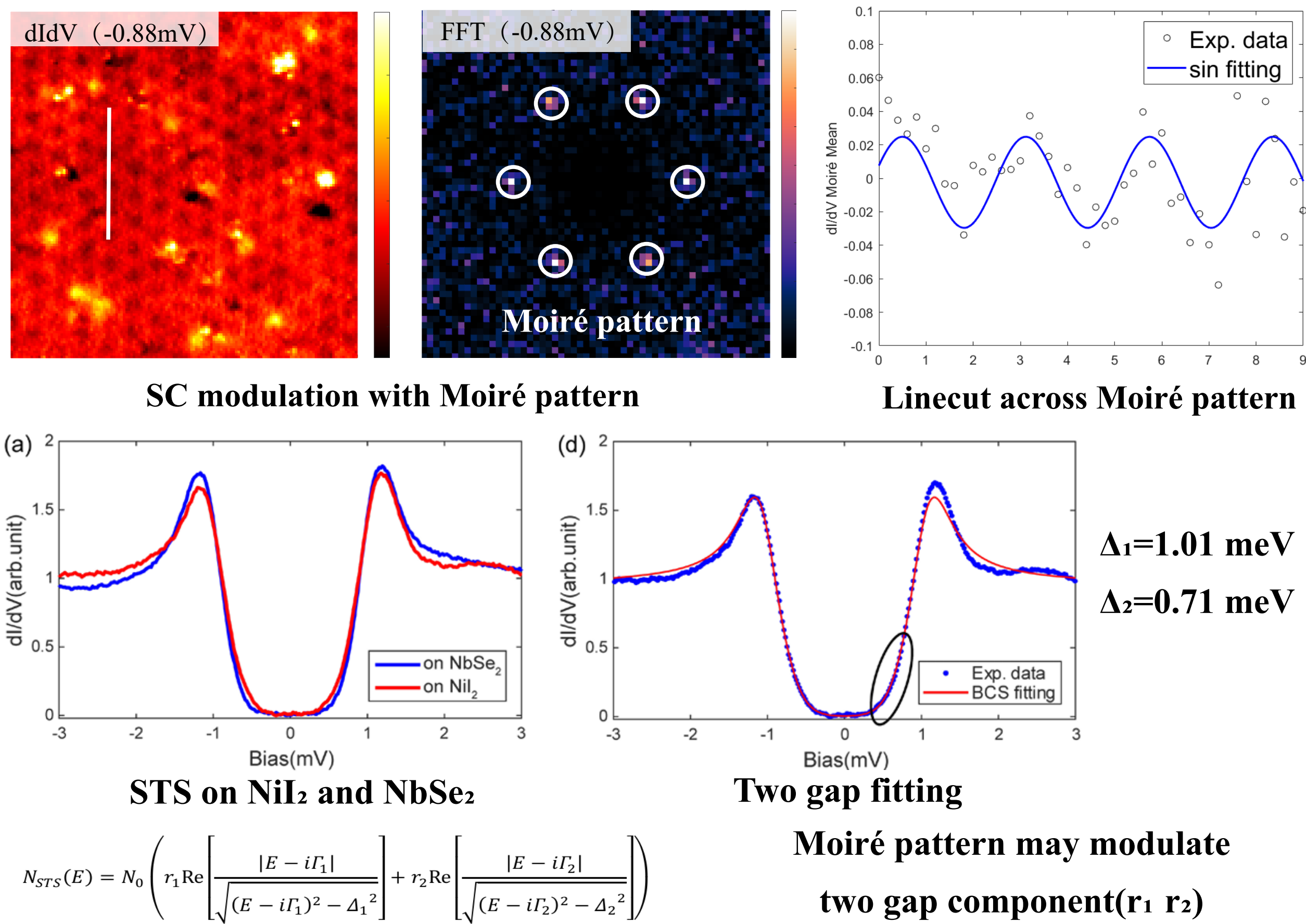
Introduction



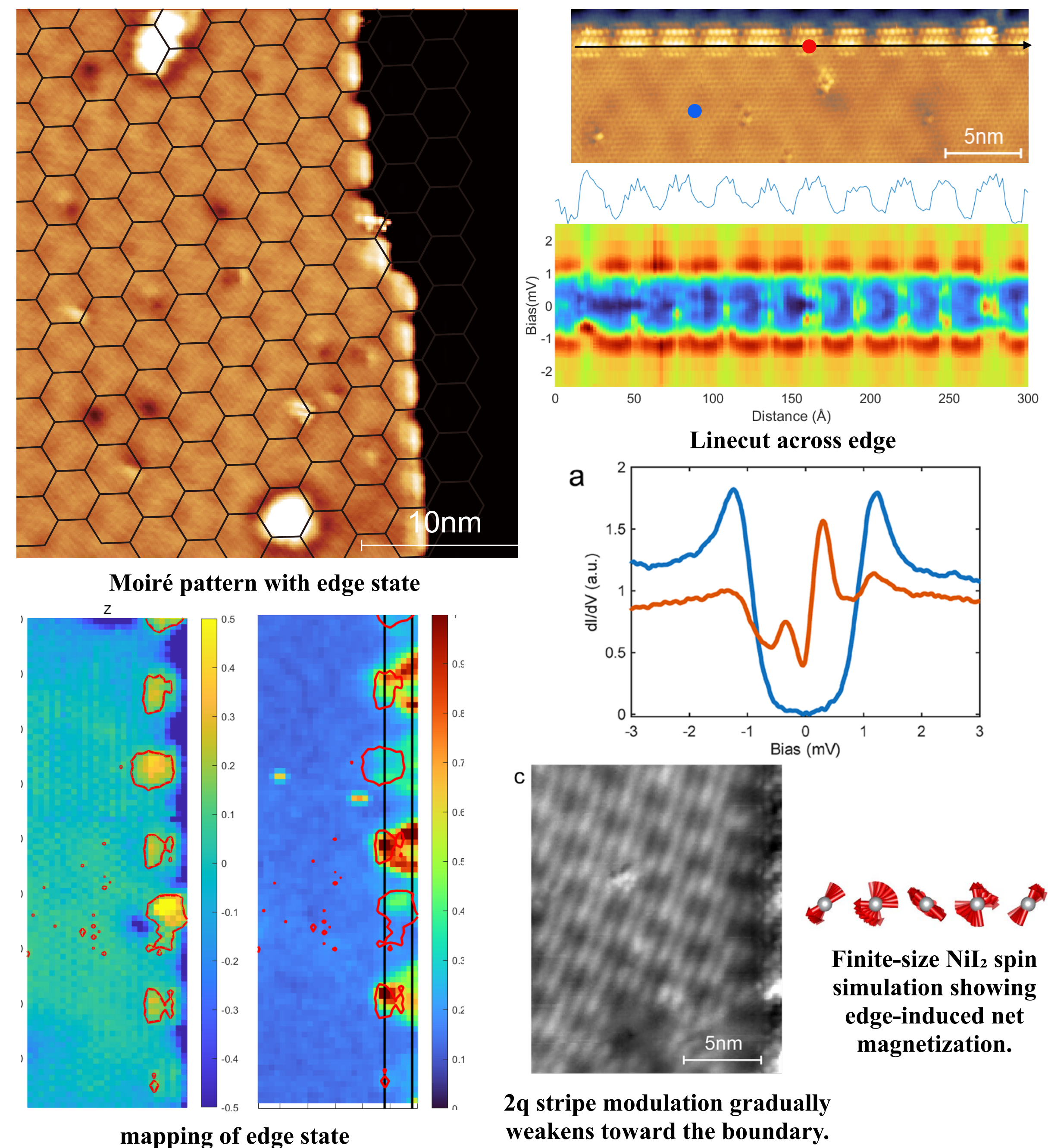
Basic characterization



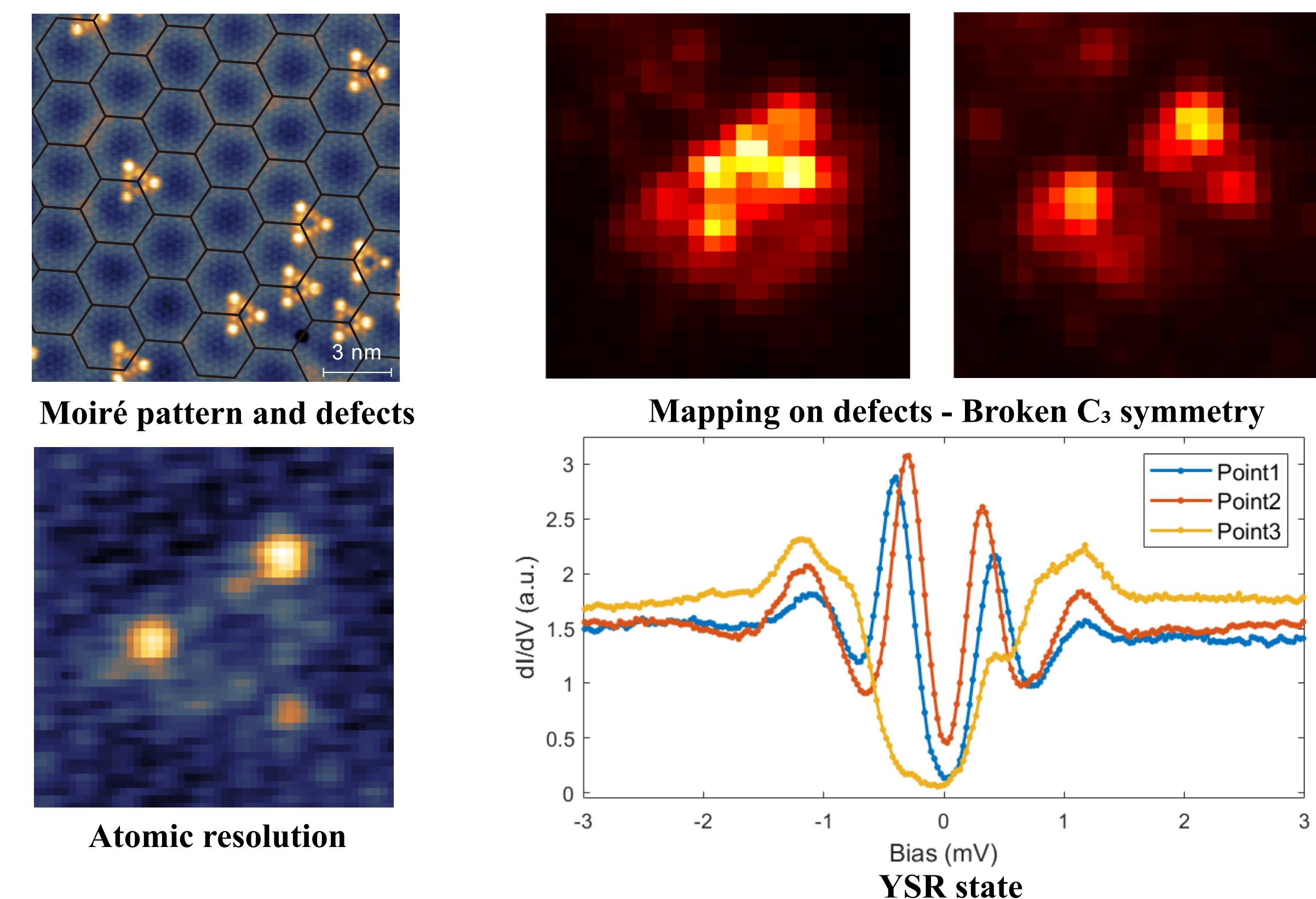
Superconducting



Edge state



Defects



Conclusion

Establish NiI₂/NbSe₂ as a moiré magnetic-superconducting heterostructure with coexisting helical magnetism and proximity-induced superconductivity.

Reveal moiré-modulated superconducting responses within NiI₂ and in the two gap component of NbSe₂.

Identify edge- and defect-induced in-gap states as local magnetic bound states, likely associated with YSR physics driven by edge magnetic reconstruction and atomic-scale magnetic scattering.