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• Natural atomic superlattices occur is a variety of strongly anisotropic

• Intrinsic tunneling spectroscopy is a new powerful spectroscopic technique, which is indispensable for fundamental studies of <u>bulk</u> electronic properties of those materials

mechanism of HTSC: Need to identify the recombination radiation

Advantages:

- Unique origin of tunnel junctions (HTSC)
- Highest quality single crystals
- Pre-made by natureEasy to integrate many junctions, perfect for 3D integration
- Unique properties: High T_c , High I_cR_n , suitable for THz applications