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- Surfaces of crystals
 Example surfaces of semiconductors GaAs
- Tunneling in quantum mechanics Particles can tunnel through barriers Exponential decay where E < V
- STM electrons tunnel through space between tip and sample Leads to the extreme sensitivity of tunneling current to the distanceof tip to sample Dominated by a single atom on tip
- Examples of GaAs, Mn on GaAs, adatoms on Cu, atoms on GaN surface that illustrate growth,
 AFM very brief

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Next Lecture

Nanostructures

Magnetic, superconducting

• Final lecture ---- Summary of course

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