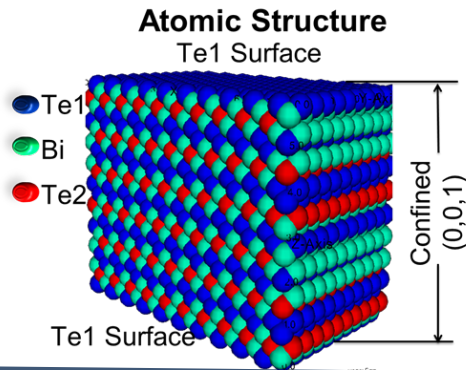


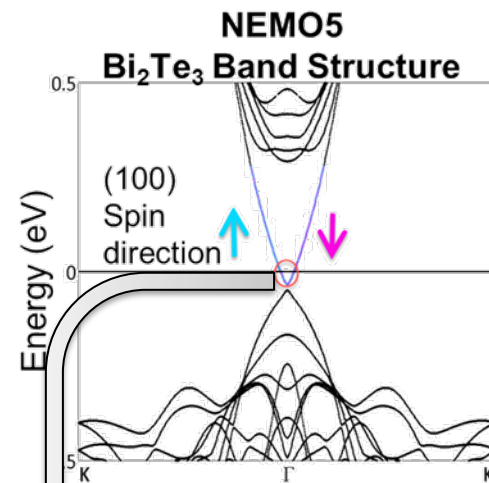
Motivation:

- Benchmark NEMO5 Tight Binding model band structure calculation for Bi_2Te_3 .

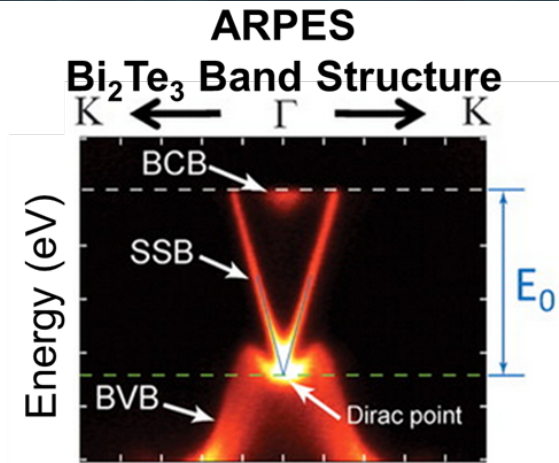


Results / Impact:

- Surface states observed from ARPES are captured by NEMO5 Tight Binding model.
- Fermi velocity from NEMO5 is comparable to the experimentally observed value.



$$\text{NEMO5 } v_{\downarrow f} = 4.04 \times 10^5 \text{ m/s}$$



$$\text{ARPES } v_{\downarrow f} = 4.28 \times 10^5 \text{ m/s}$$

Surface State ψ^2

