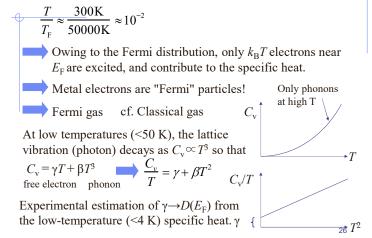
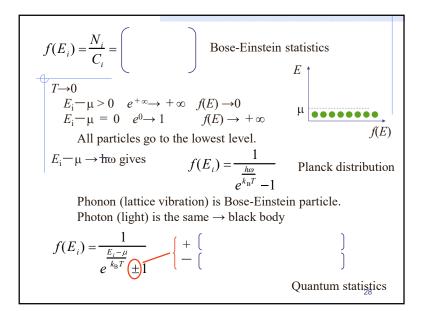
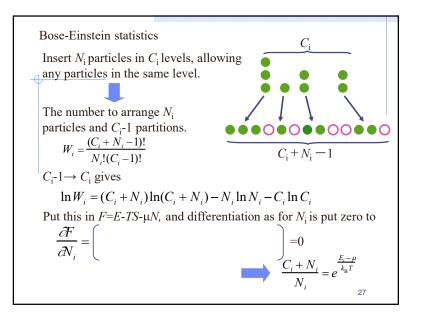
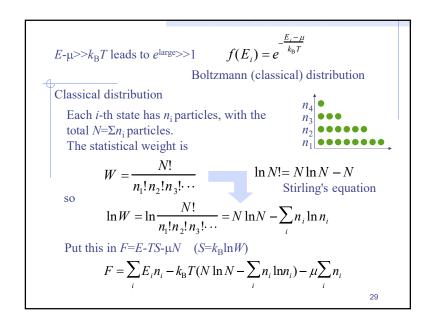


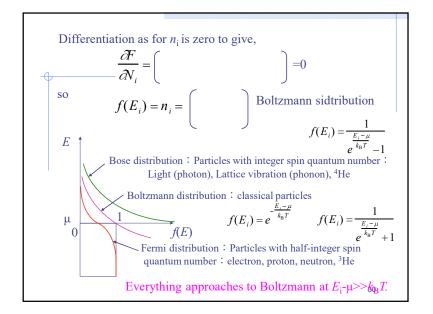
If free electron is an ideal gas, according to the Dulong-Petit theorem, the specific heat is $C_v=3R$. However, it is less than

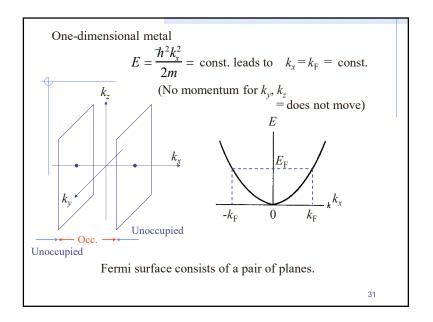


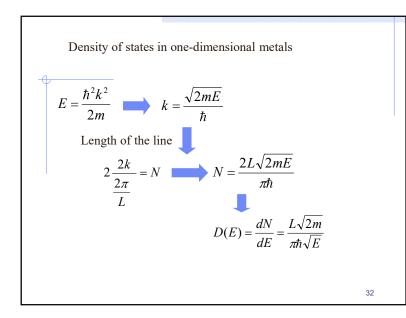


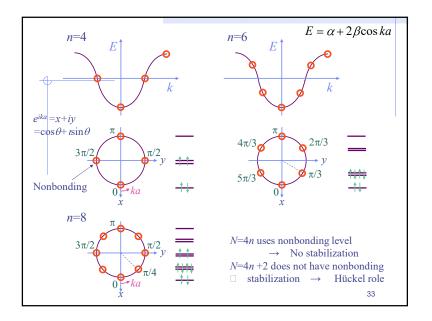












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