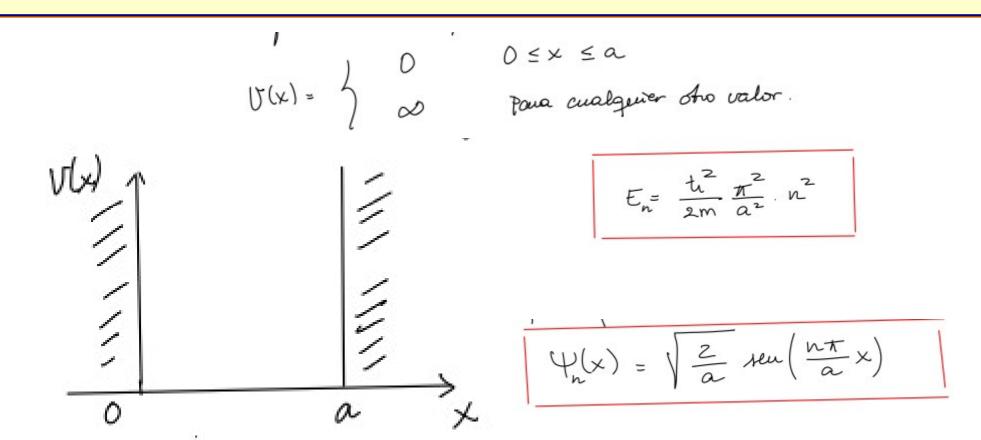
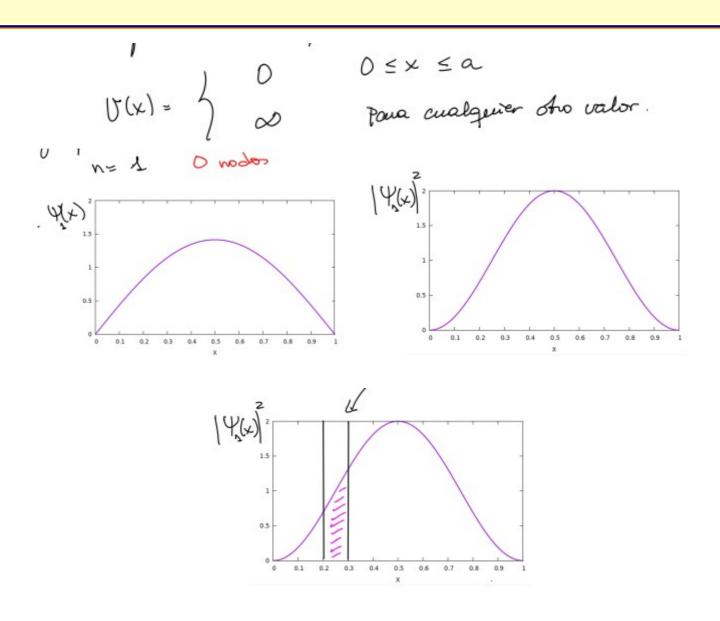
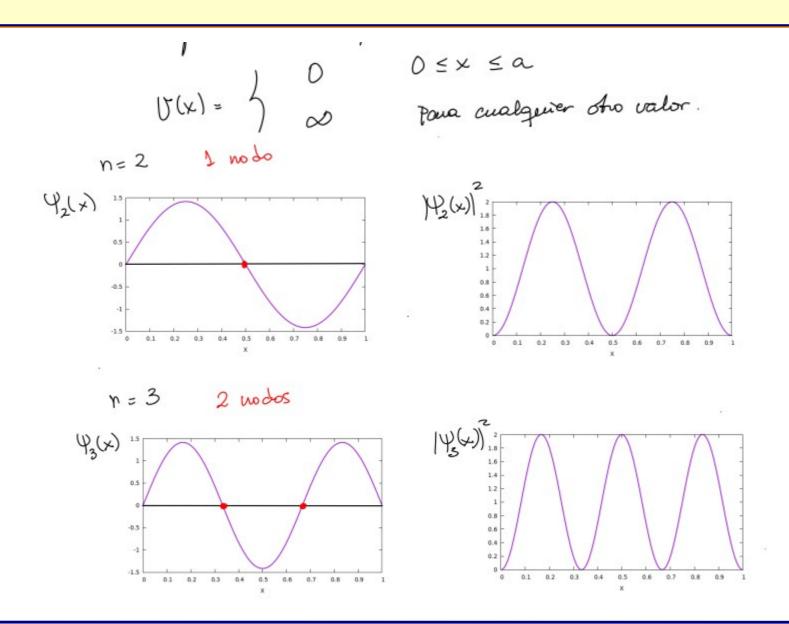


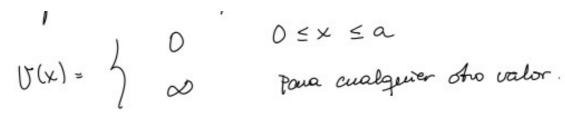
Mecánica Cuántica I Grado en Física 3er curso

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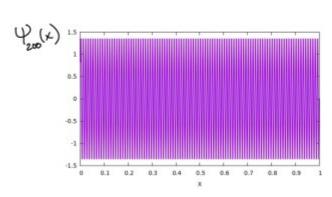


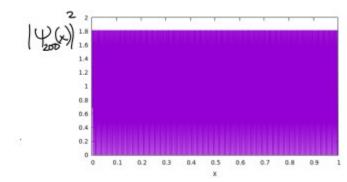


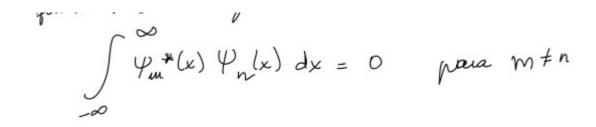


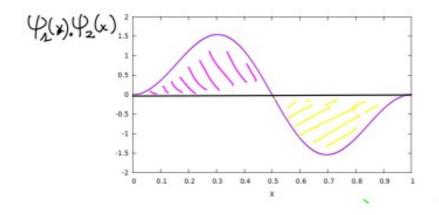






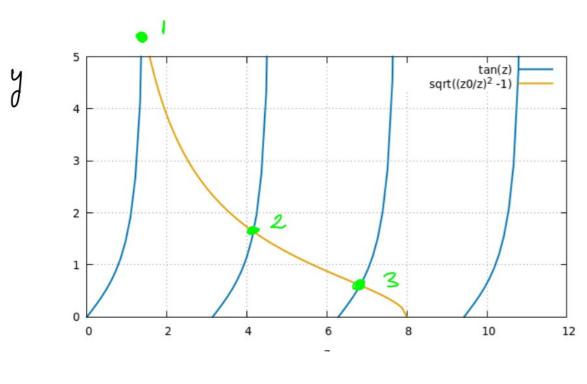






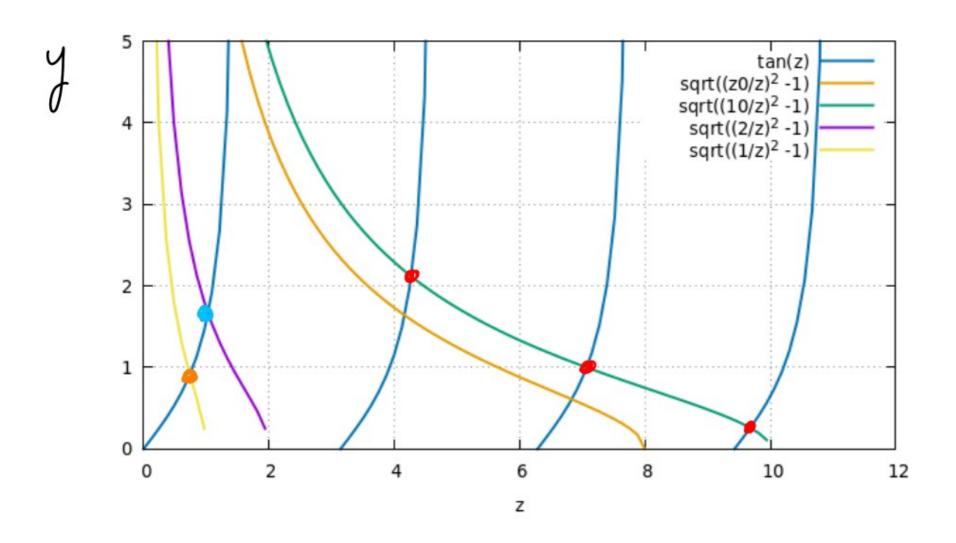
Tema 3 – Barreras y pozos de potencial

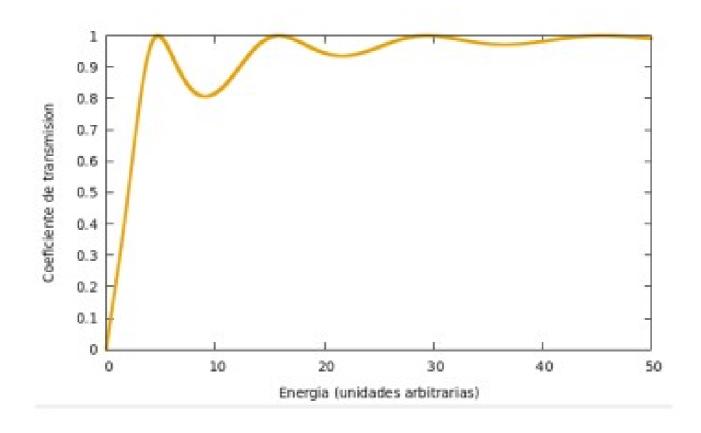
https://phet.colorado.edu/sims/cheerpj/quantum-tunneling/latest/quantum-tunneling.html?simulation=quantum-tunneling

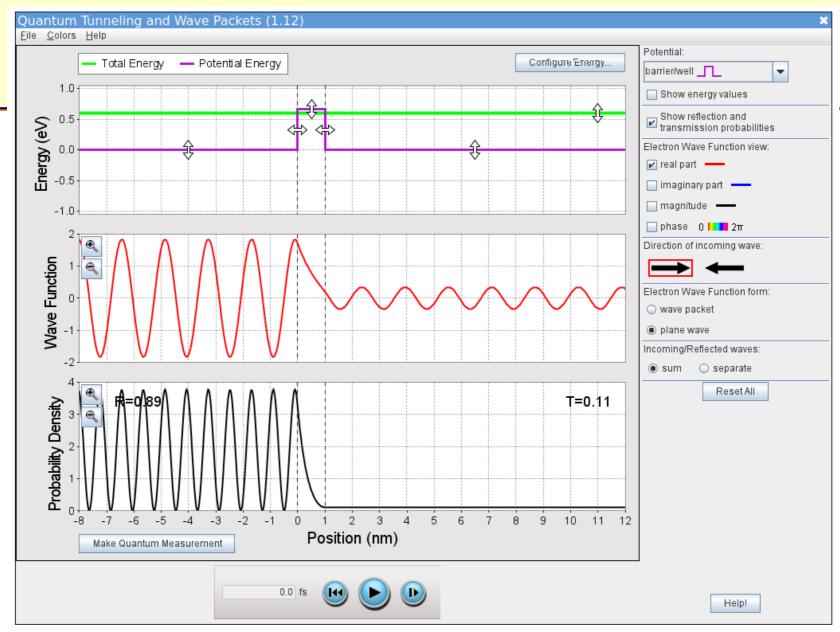


$$y = tau\left(\frac{2}{2}\right)$$

$$y = \sqrt{\left(\frac{70}{2}\right)^2 - 1}$$





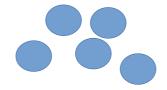


https://phet.colorado.edu/sims/cheerpj/quantum-tunneling/latest/quantum-tunneling.html?simulation=quantum-tunneling

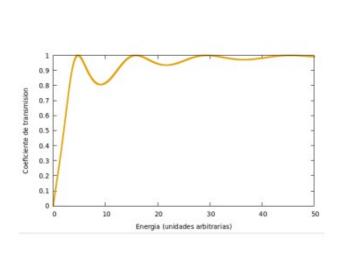
Tema 3 – Evidencias experimentales

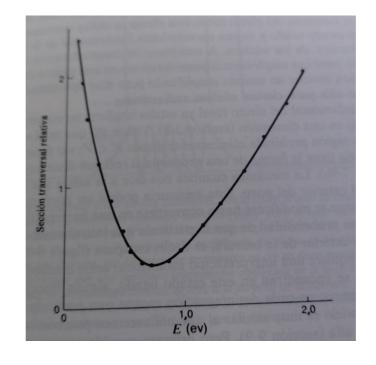
Pozo de potencial finito: Efecto Ramsauer-Towsend

Electrones baja energía



Gas noble

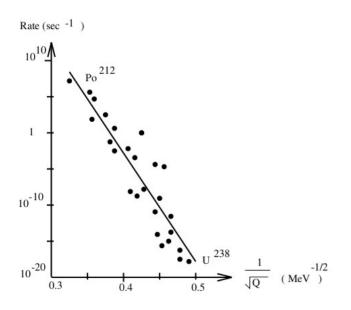


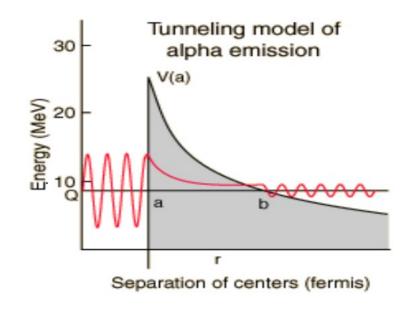


French & Taylor Introducción a la física cuántica Ed. Reverté, pag. 349

Tema 3 – Evidencias experimentales

Barrera de potencial: Desintegración alfa





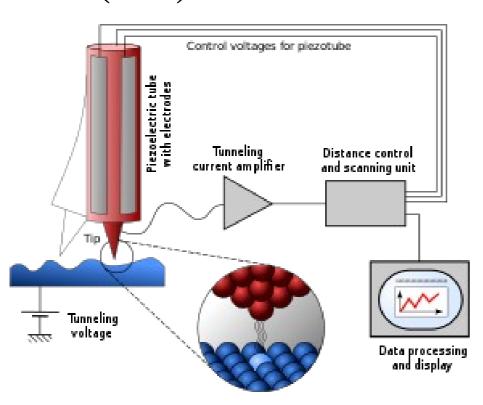
Hyperply sios.

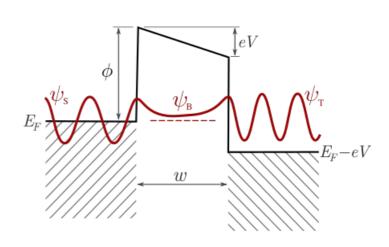
French & Taylor Introducción a la física cuántica Ed. Reverté, pag. 367

Tema 3 – Evidencias experimentales

Barrera de potencial:

Microscopio de efecto tunel. Scanning tunneling microscope (STM)





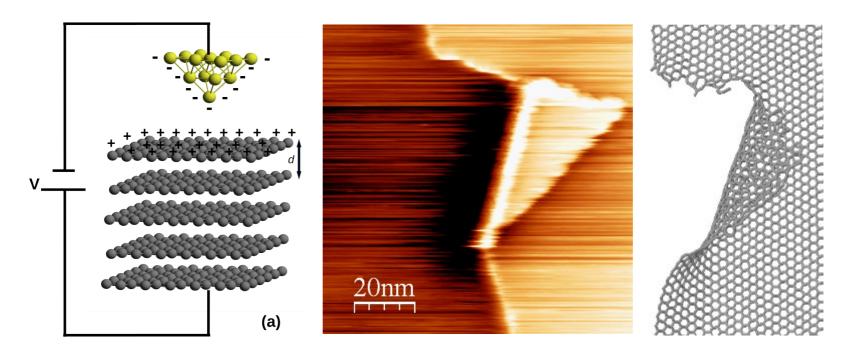
Wikipedia

Electroexfoliation of graphite with an STM

DFT: J. J. Palacios, M. Moaied

Experiments: C. Verdú, G. Sáenz-Arce, D. C. Milan, C. Untiedt – LT NANOLAB, UA

Molecular dynamics simulations: J. Martínez-Asencio, M. J. Caturla

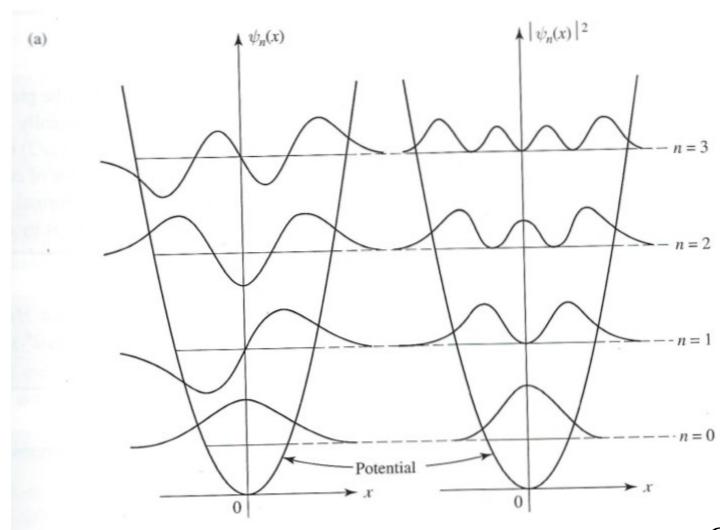


DFT: Accumulation of charge on the surface modifies the binding between layers

MD: defect formation and tearing of a single layer

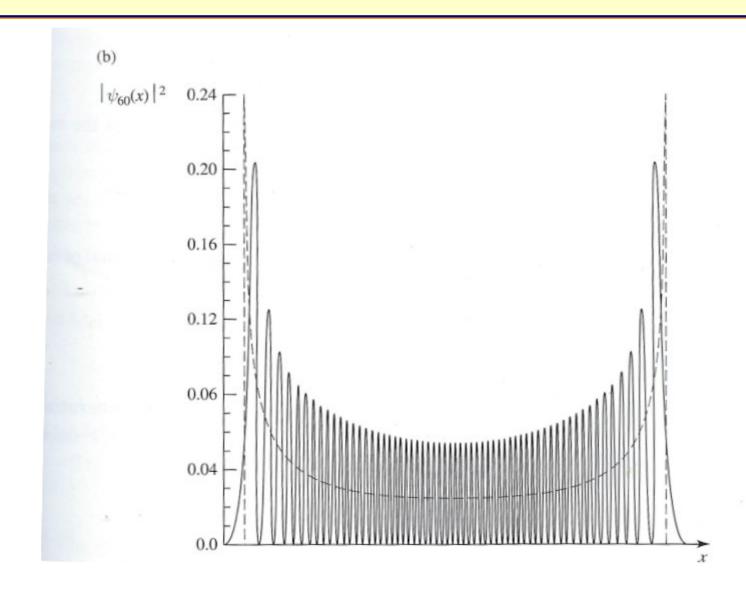


Tema 3 – Oscilador armónico



Griffiths

Tema 3 – Oscilador armónico



Griffiths