INTRODUCTION TO ASTROPHYSICS

- Coulomb barrier and quantum tunneling continued
- Thermonuclear reaction rates
 - the definition of the cross-section
 - $\circ~$ number of reactions per second per unit volume
 - the Maxwell-Boltzmann distribution
- Nuclear cross-sections
 - classical cross-section
 - quantum (de Broglie) cross-section
 - other contributions
- Quantum tunneling quantified
- Nuclear structure effects