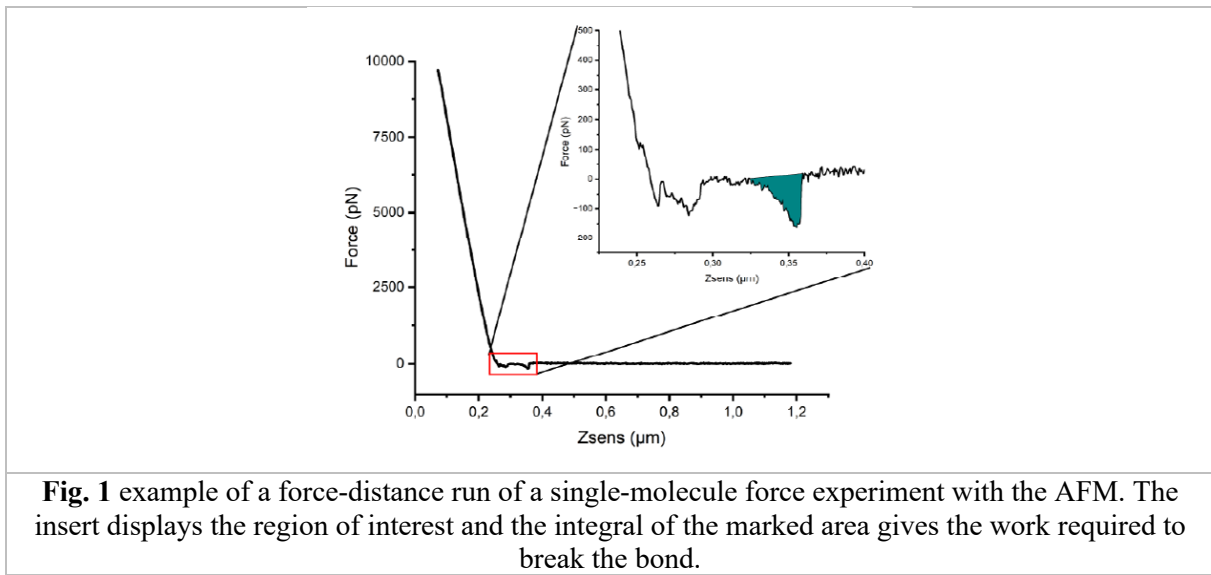


Confirmation of Jarzynski's equality based on single molecular and macroscopic interaction force measurements

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$$\exp\left(\frac{-\Delta F}{kT}\right) = \left\langle \exp\left(\frac{-W_n}{kT}\right) \right\rangle_n \quad (1)$$

Jarzynski's equality relates the free energy difference ΔF to the work W_n done on the system with k being the Boltzmann factor and T being the temperature.



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