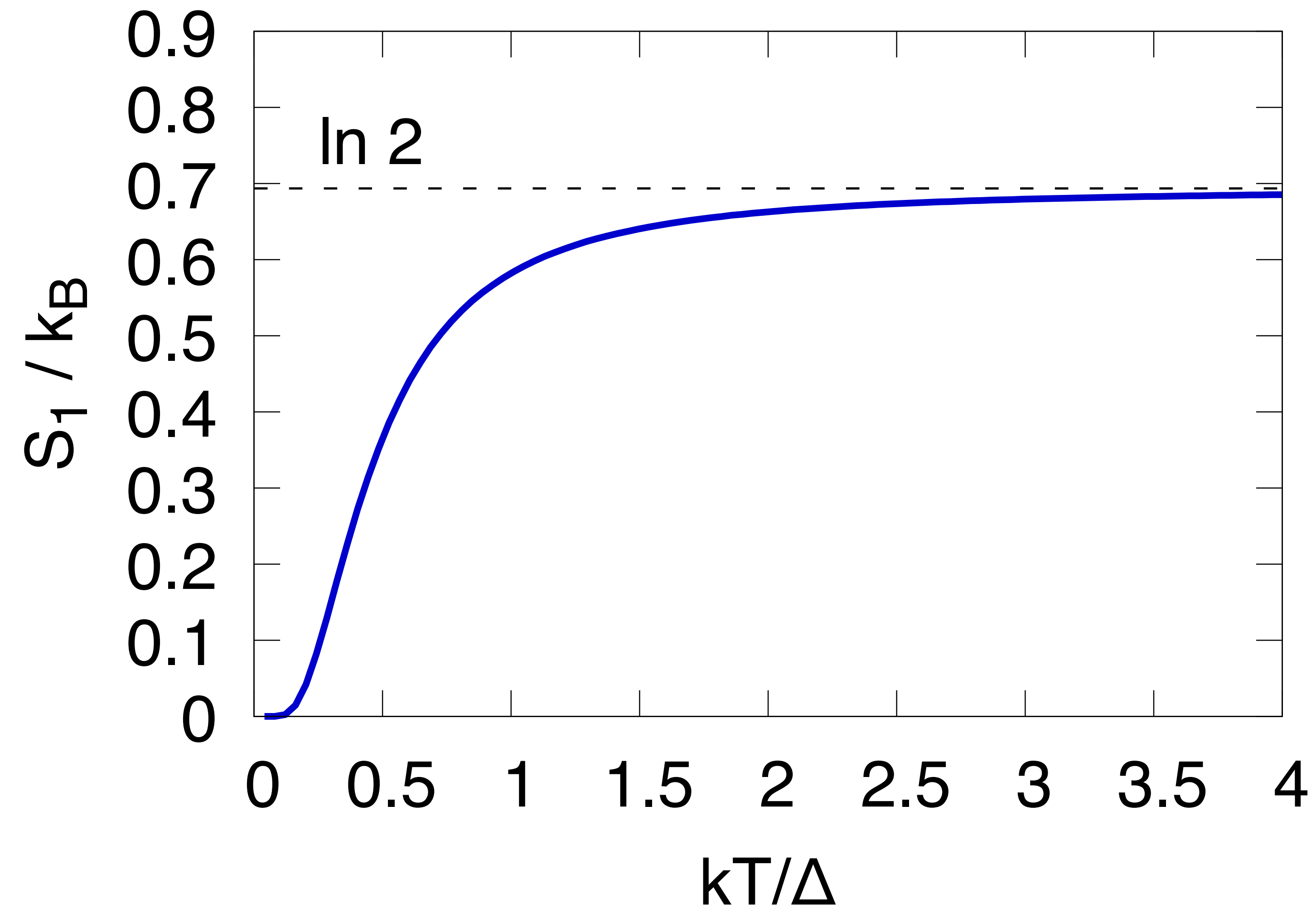


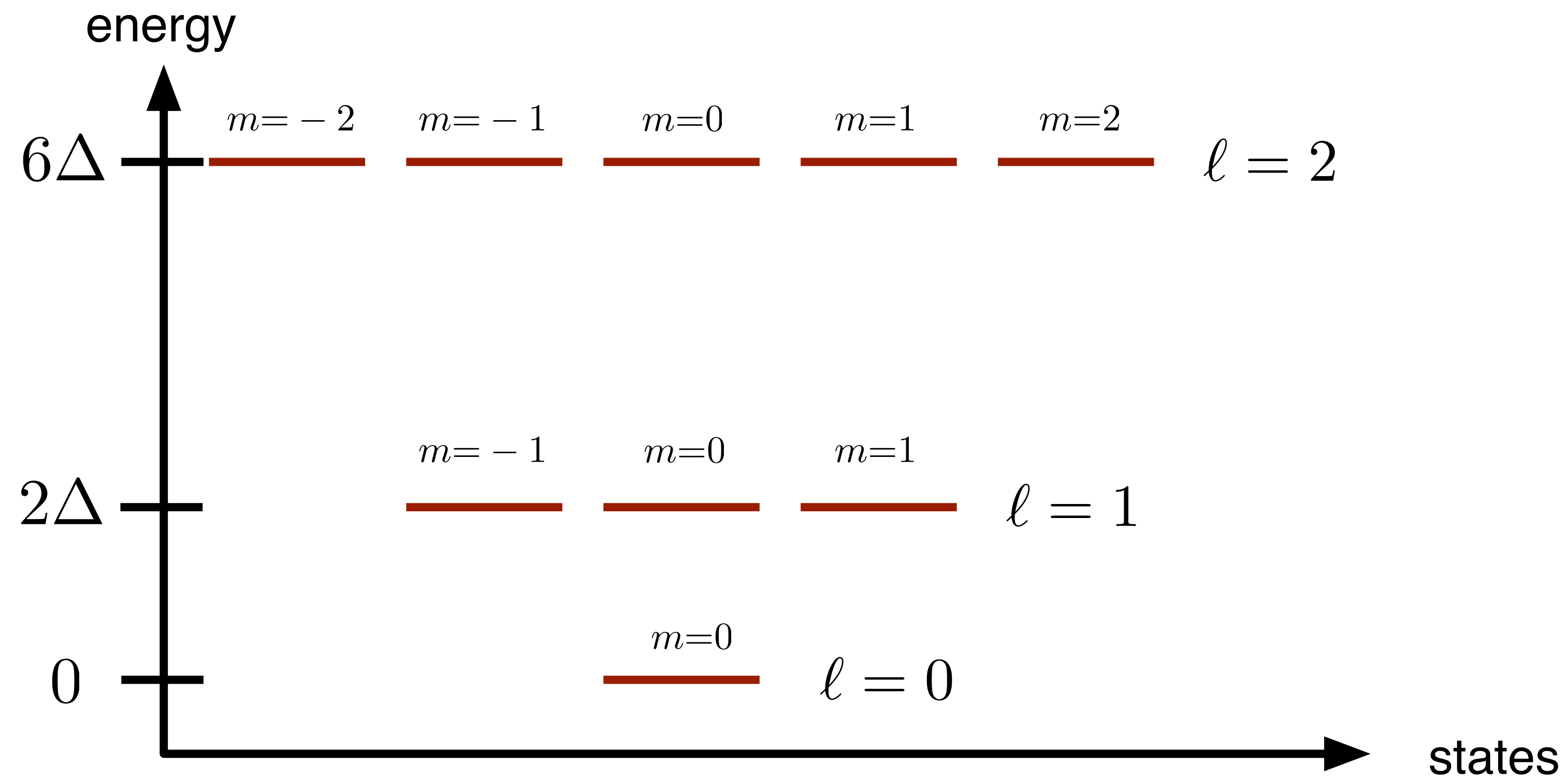
# Entropy of Two State System

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# Energy Levels of Rotation:

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For example for  $\ell = 2$ :

$$\epsilon_2 = \ell(\ell + 1)\Delta = 6\Delta$$