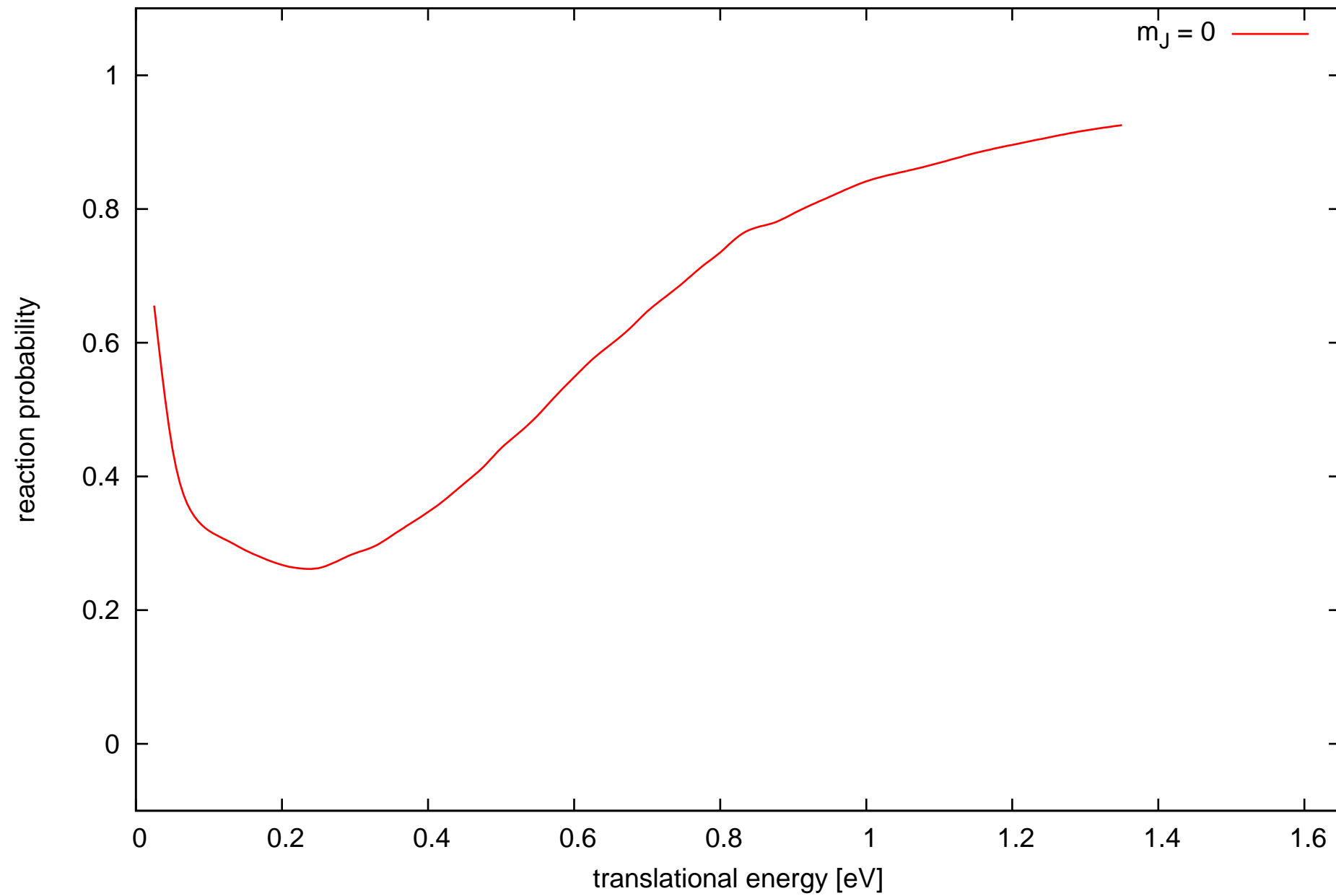
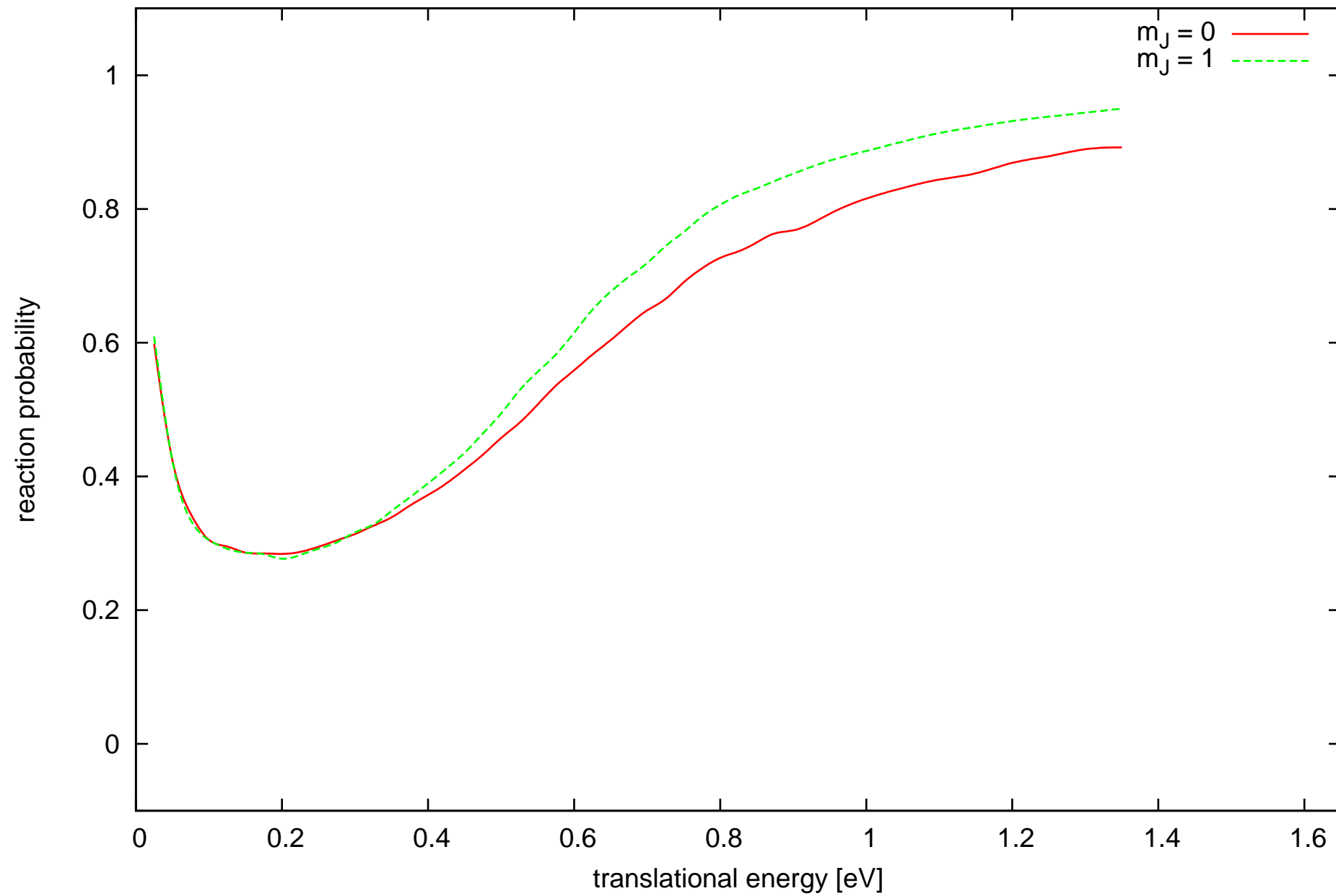


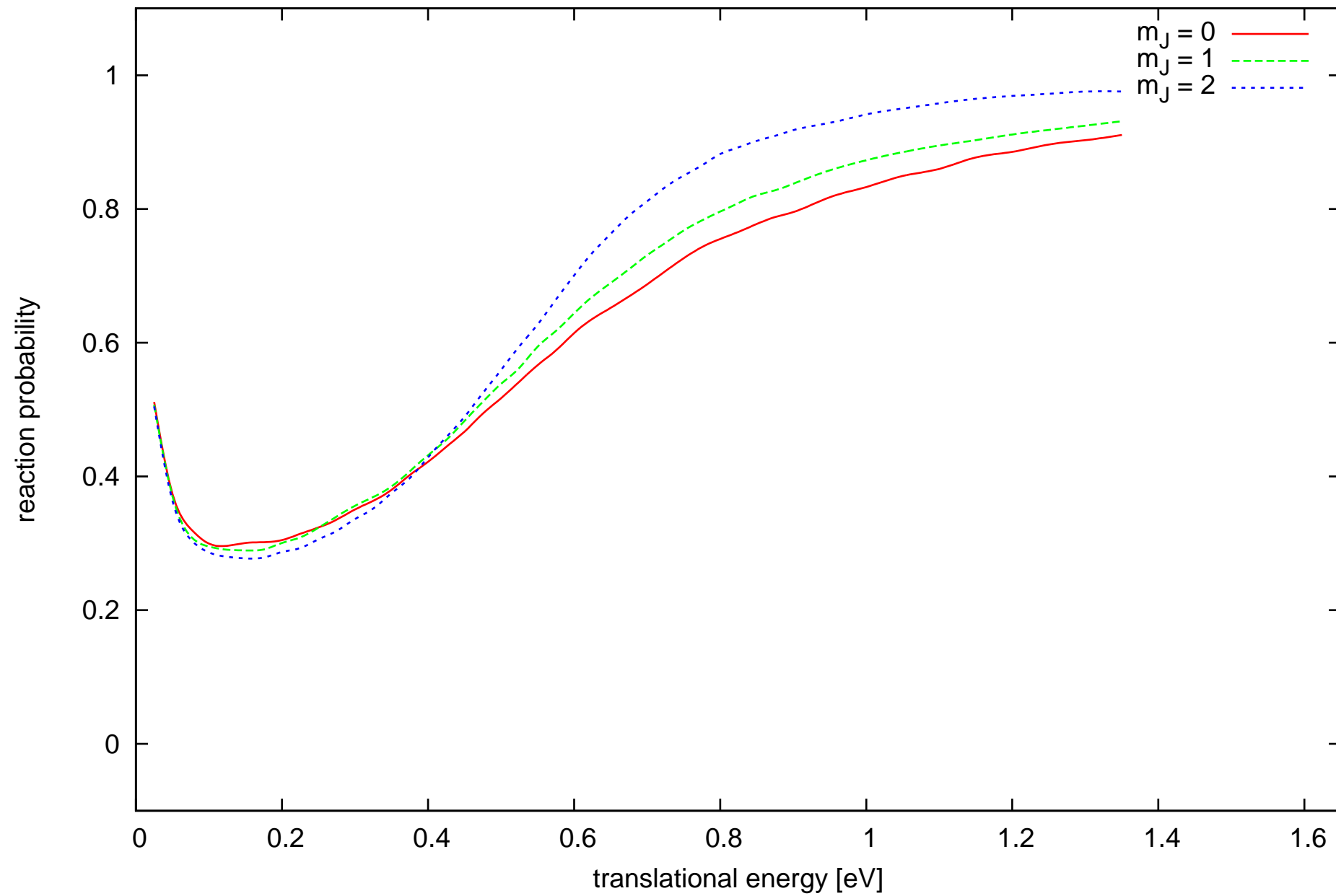
QCT Pt(211) D₂ -- state v = 0 J = 0



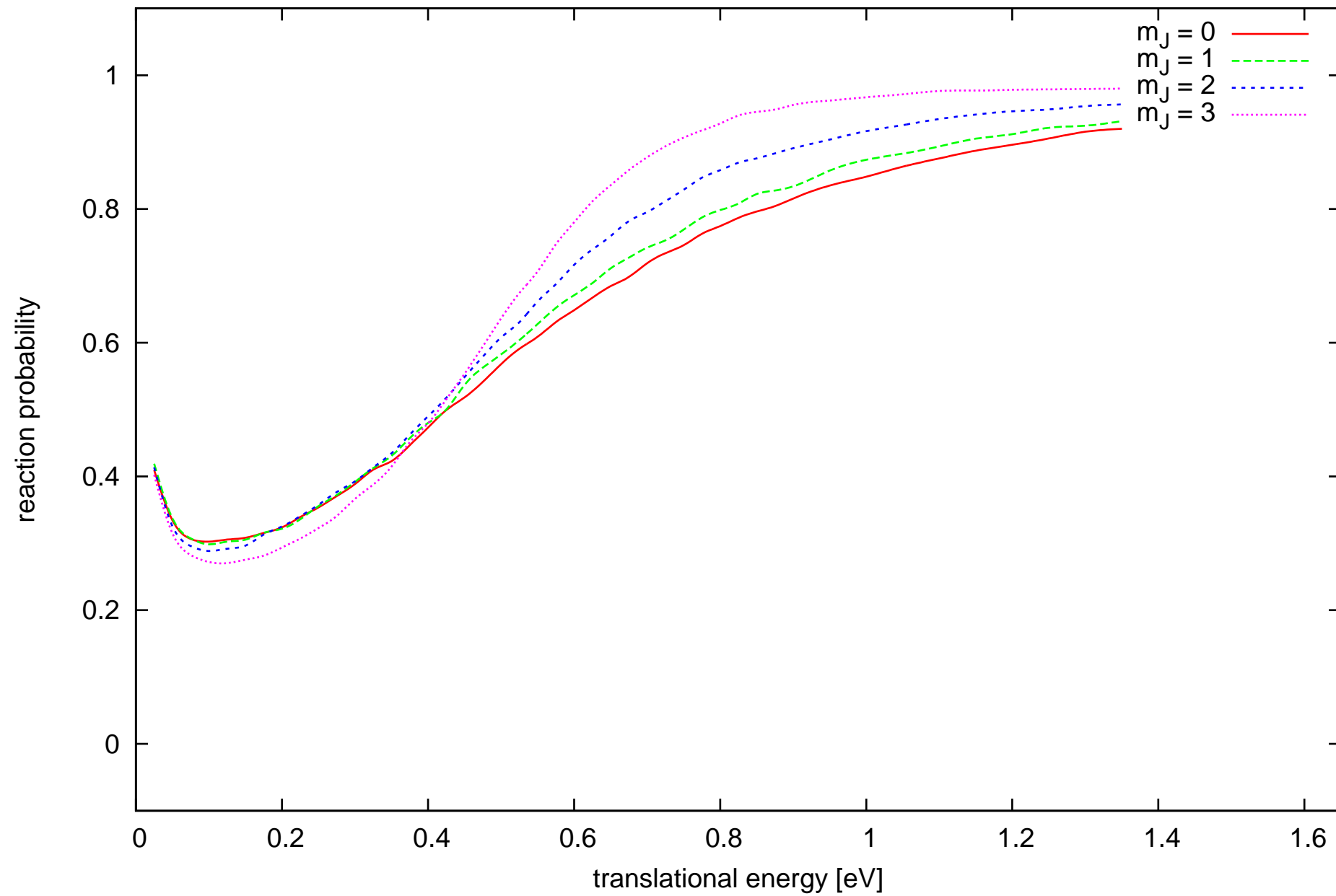
QCT Pt(211) D₂ -- state $v = 0$ $J = 1$



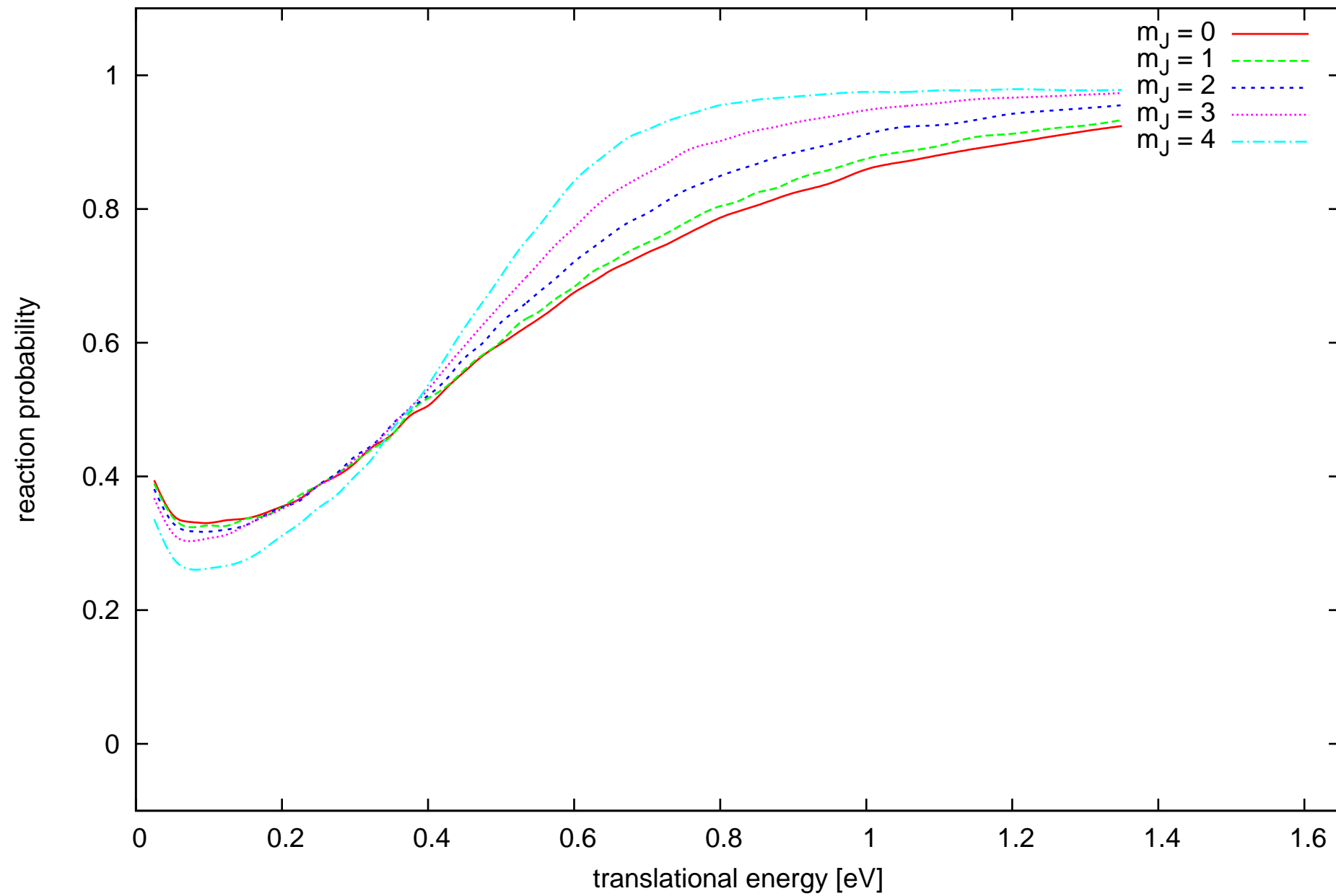
QCT Pt(211) D₂ -- state v = 0 J = 2



QCT Pt(211) D₂ -- state v = 0 J = 3



QCT Pt(211) D₂ -- state v = 0 J = 4



QCT Pt(211) D₂ -- state $v = 0$ $J = 5$

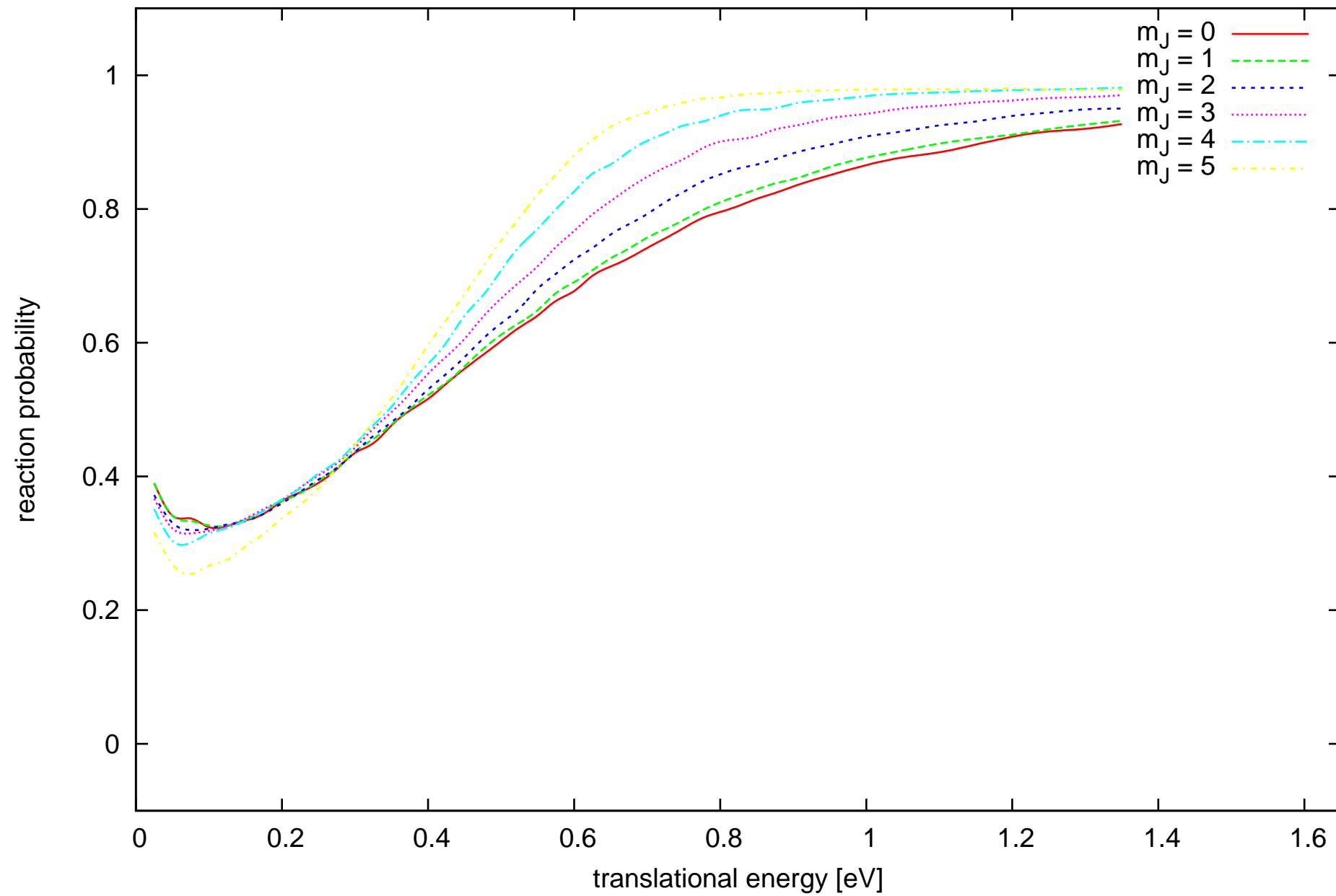
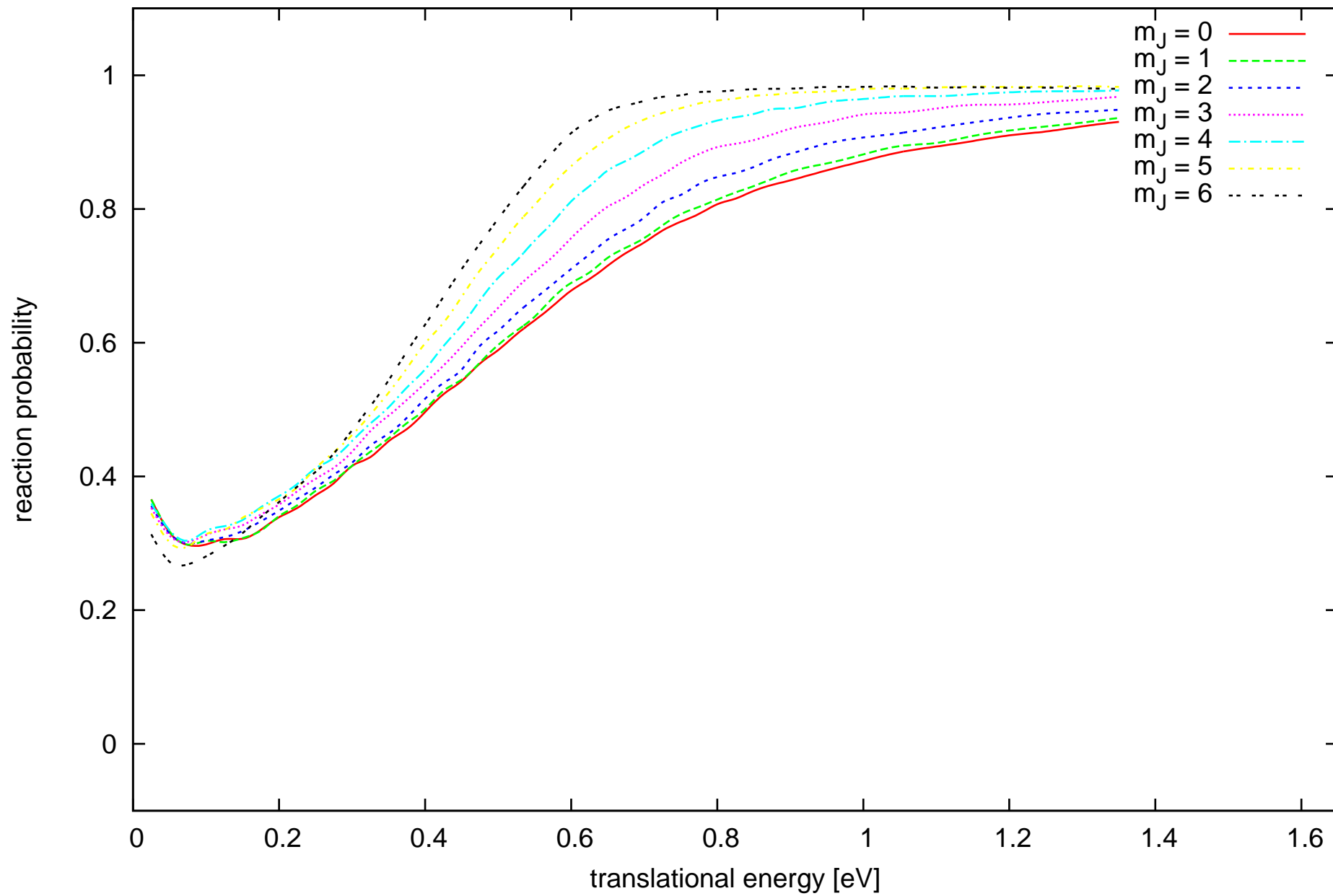


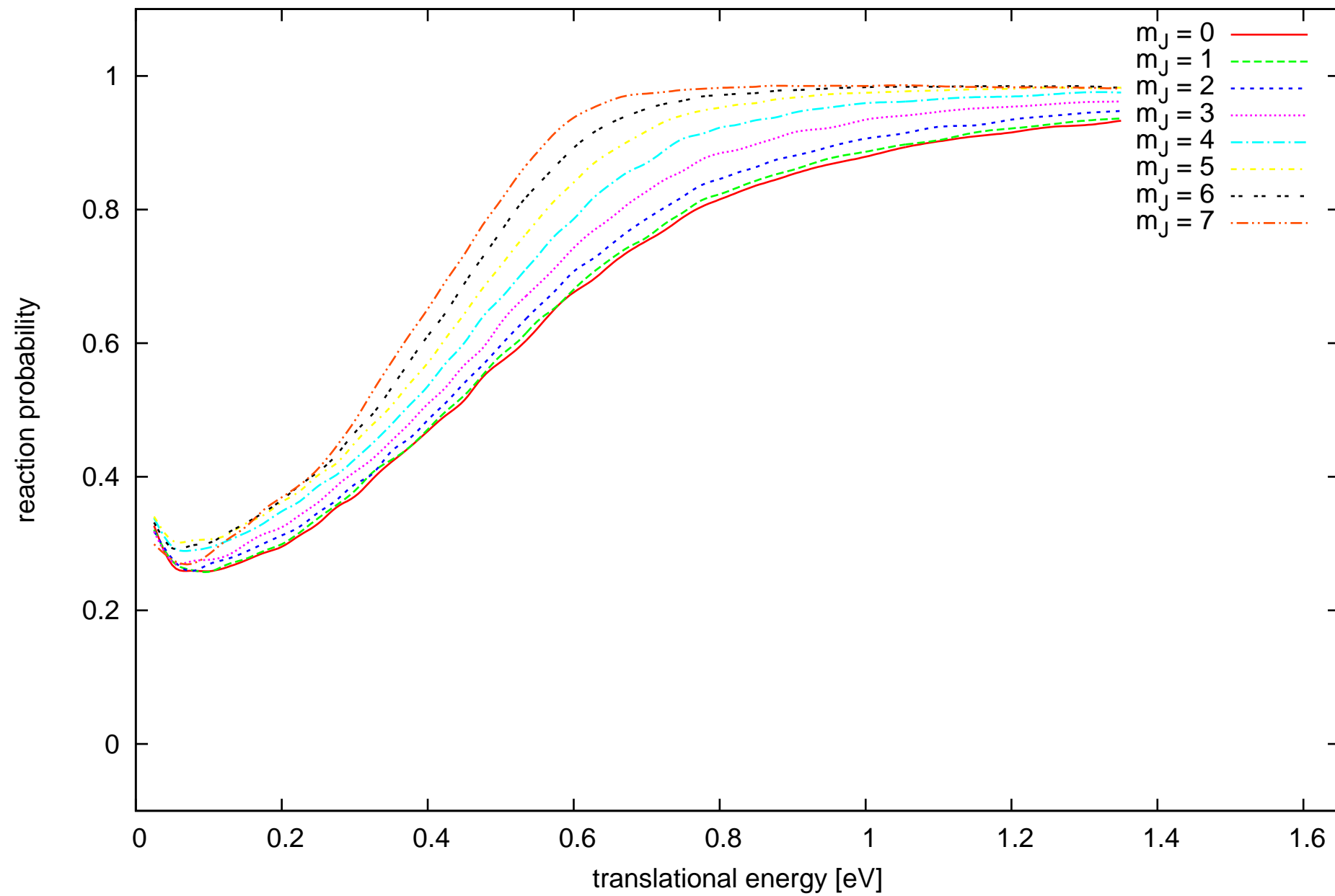
Figure 1 is a plot showing the relative rate of ionization, σ_{rel} , as a function of translational energy [eV] for the $\text{H}^+ + \text{H}_2$ system. The x-axis ranges from 0 to 1.6 eV, and the y-axis ranges from 0 to 1.0. Seven curves are plotted, corresponding to different values of the quantum number m_J :

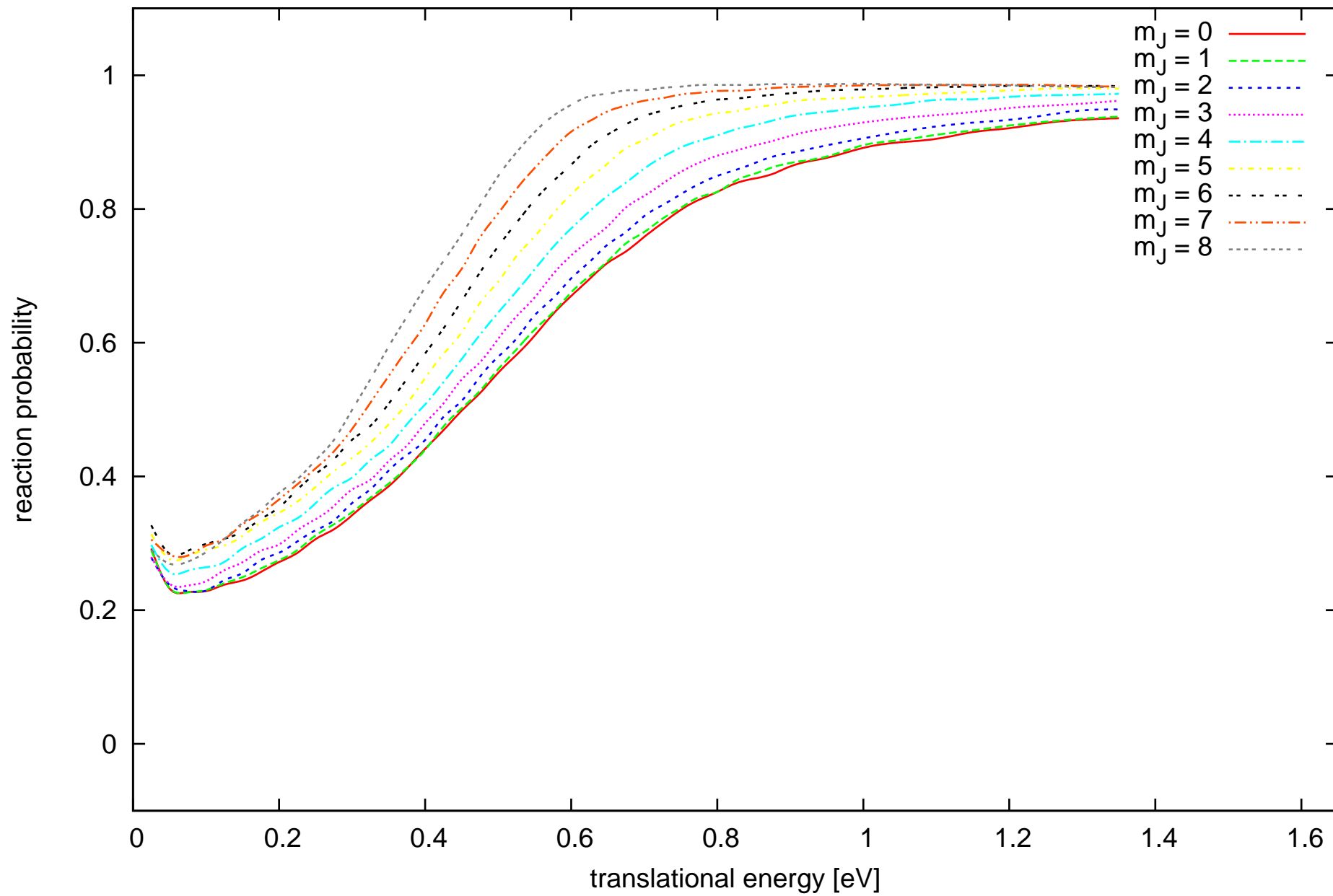
- $m_J = 0$ (Red solid line)
- $m_J = 1$ (Green dashed line)
- $m_J = 2$ (Blue dotted line)
- $m_J = 3$ (Magenta dash-dot line)
- $m_J = 4$ (Cyan long-dash line)
- $m_J = 5$ (Yellow dash-dot-dot line)
- $m_J = 6$ (Black dotted line)

The curves show a minimum around 0.1 eV and then increase with energy. The rate of ionization is highest for $m_J = 6$ and lowest for $m_J = 0$.

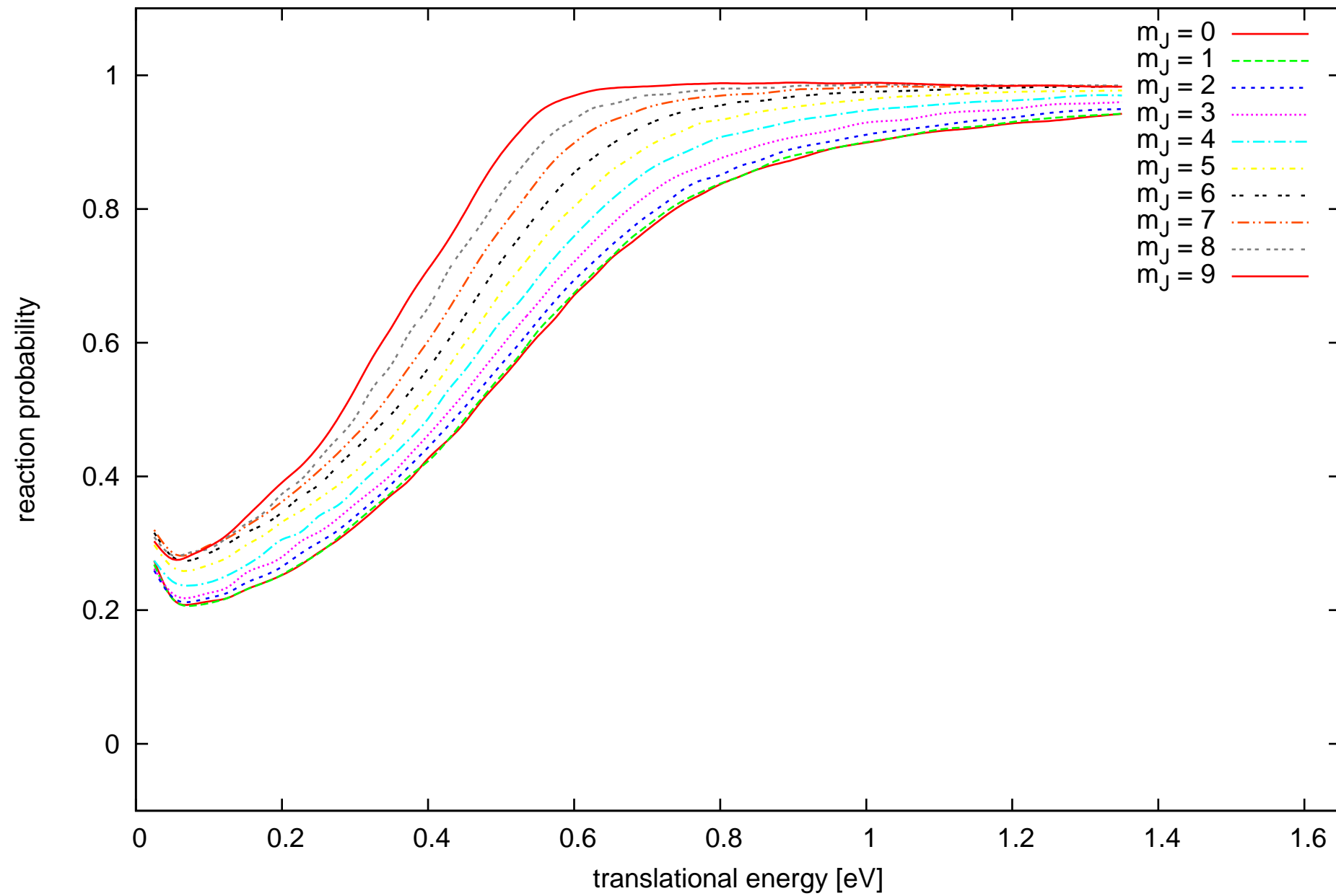


QCT Pt(211) D₂ -- state v = 0 J = 7

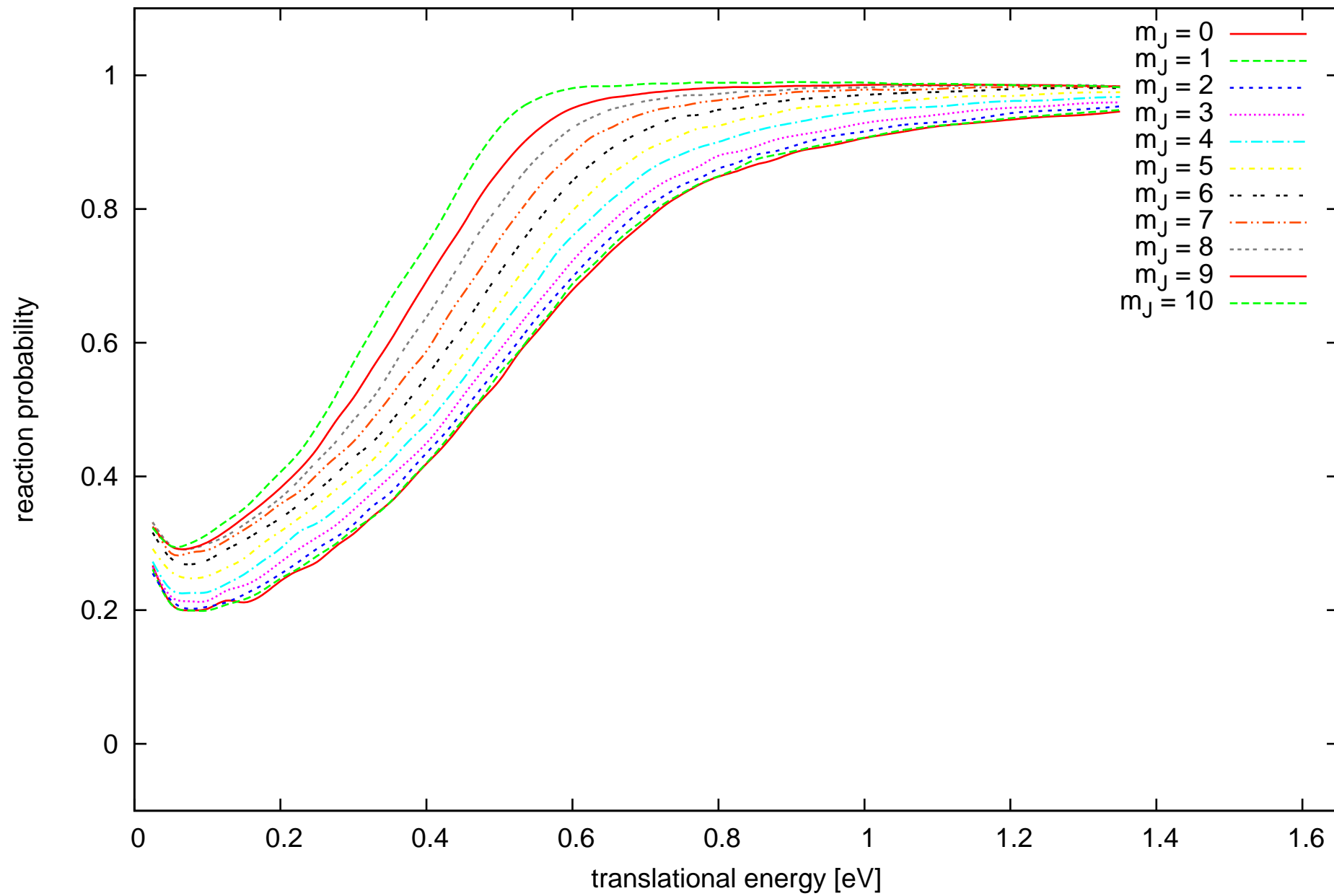




QCT Pt(211) D₂ -- state v = 0 J = 9



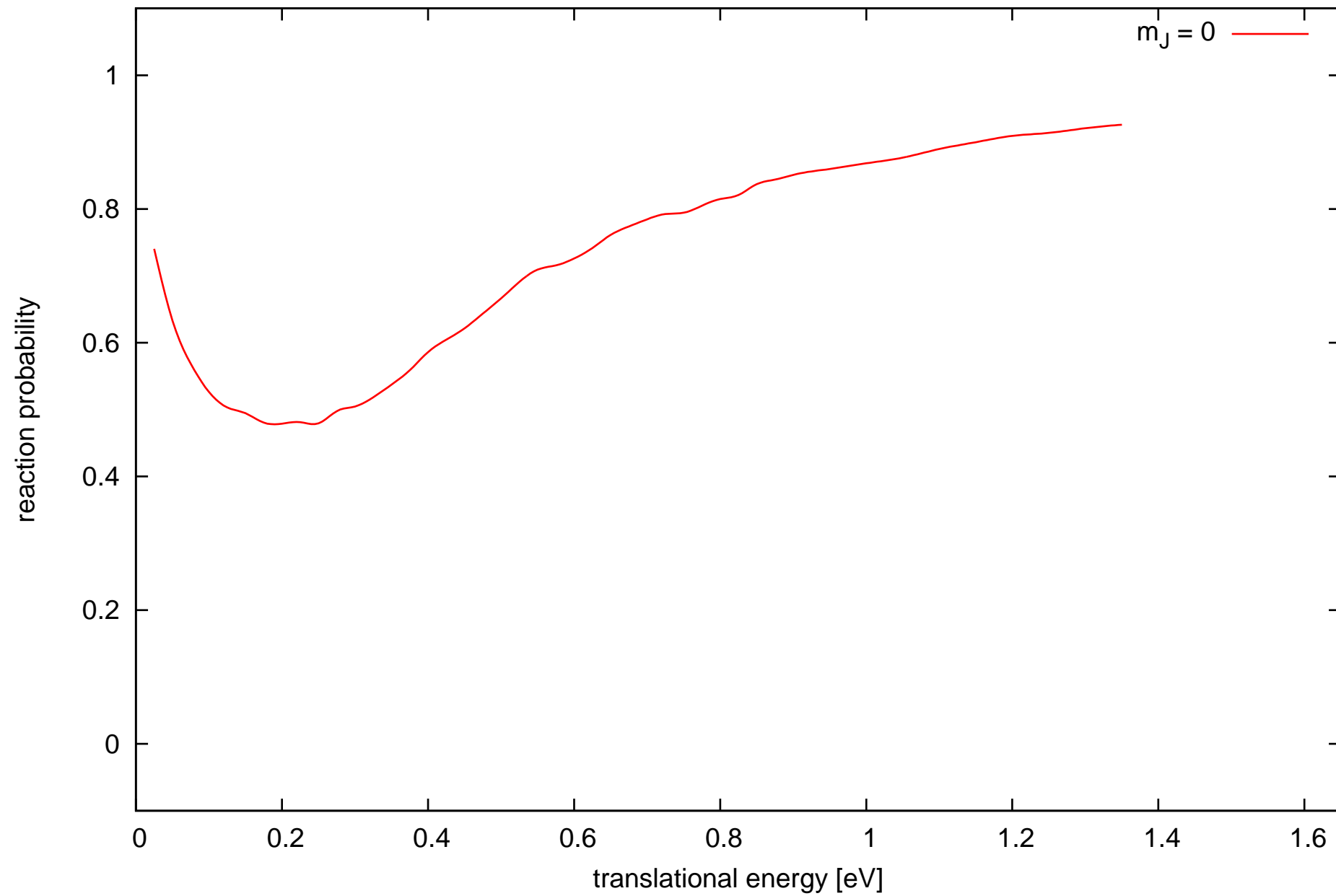
QCT Pt(211) D₂ -- state v = 0 J = 10



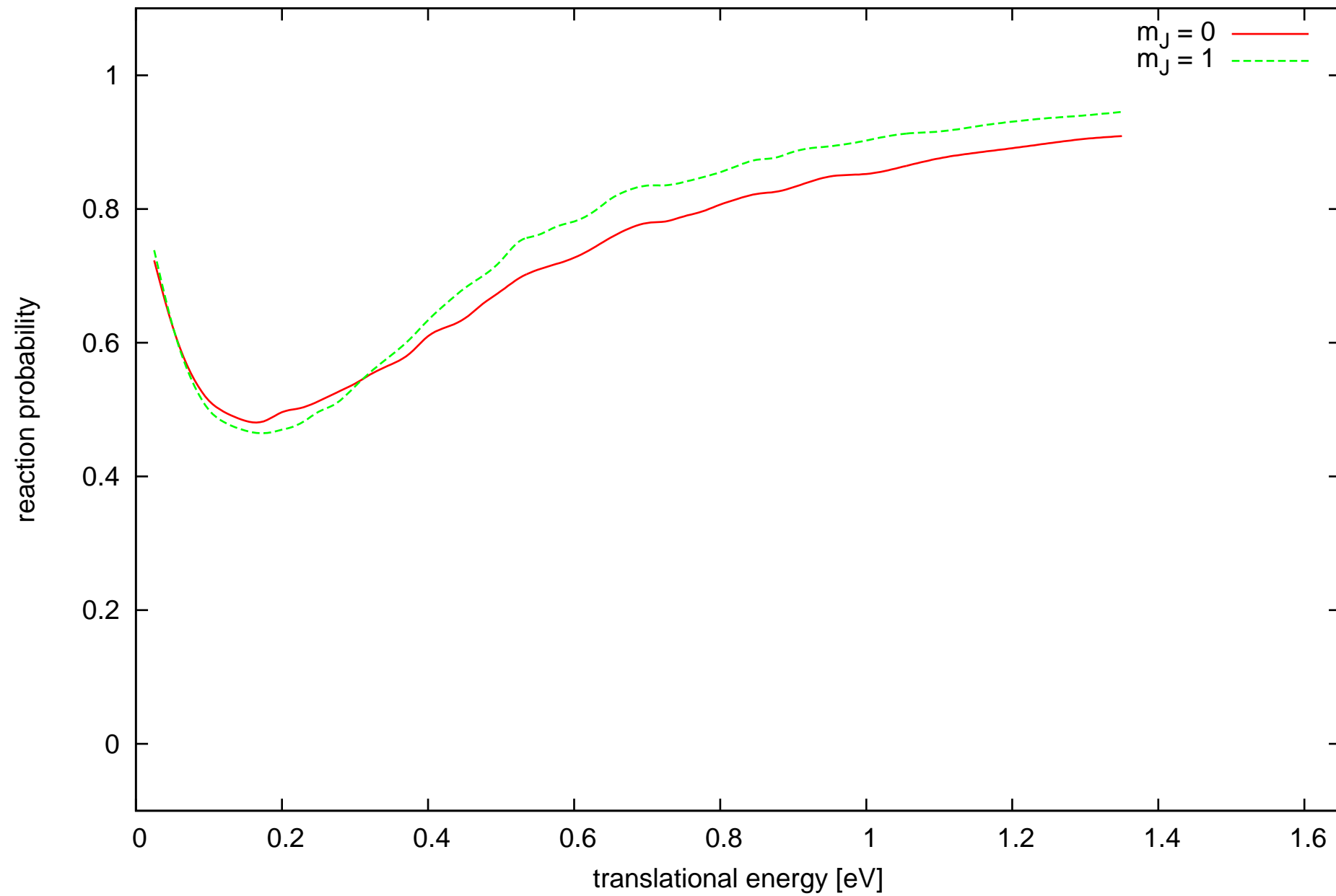
QCT Pt(211) D_2 -- state $v = 0$ $J = 11$



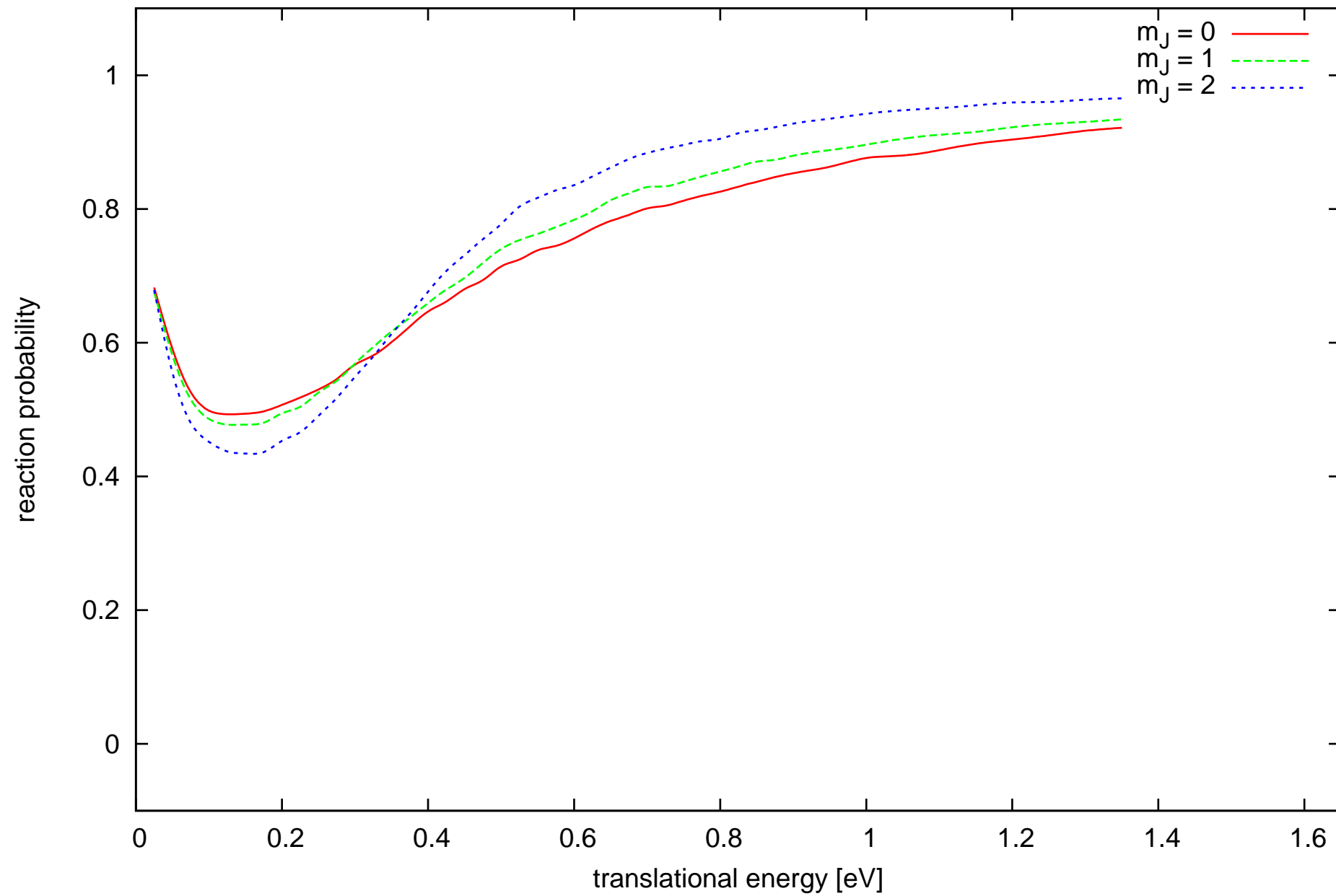
QCT Pt(211) D₂ -- state v = 1 J = 0



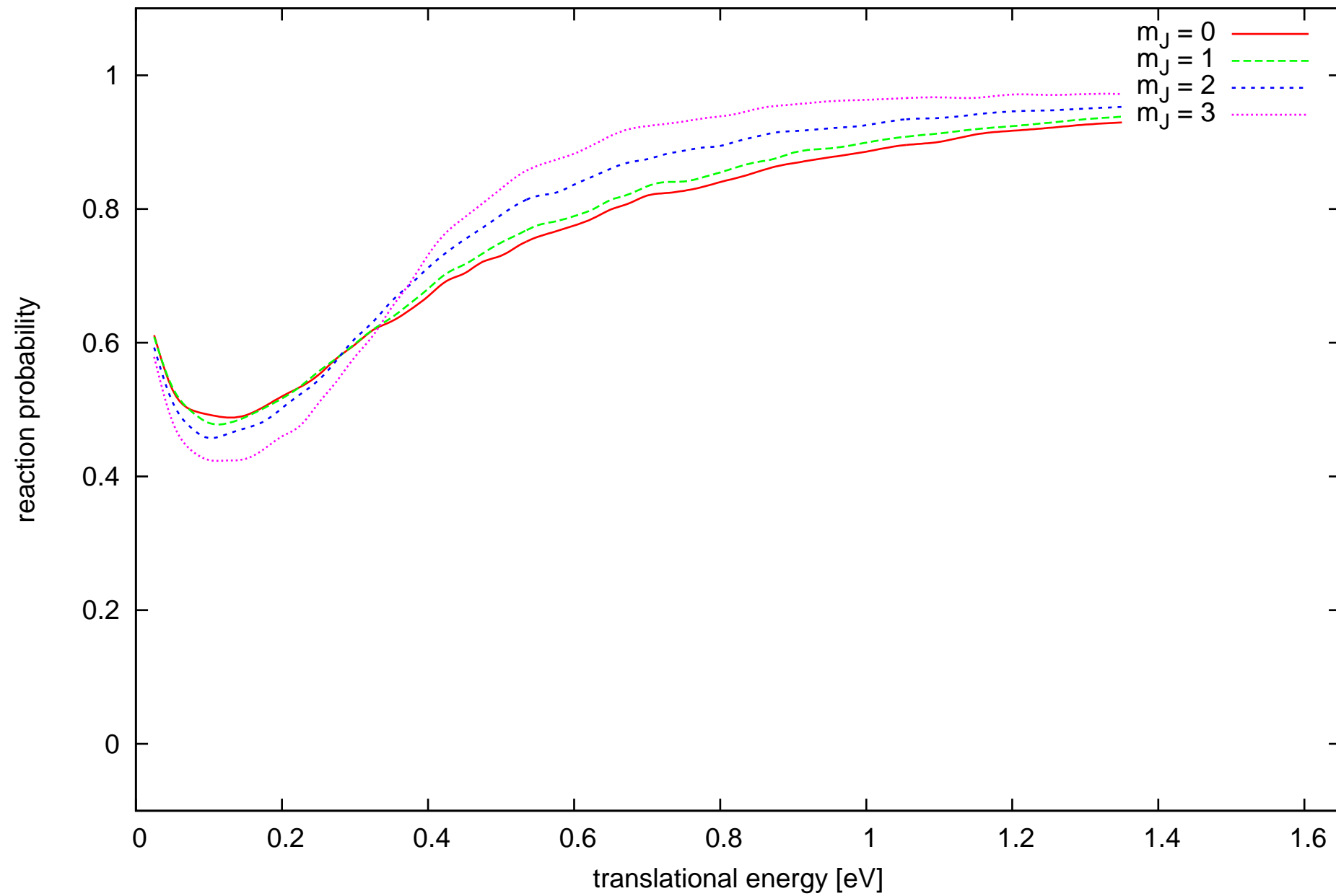
QCT Pt(211) D₂ -- state $v = 1$ $J = 1$



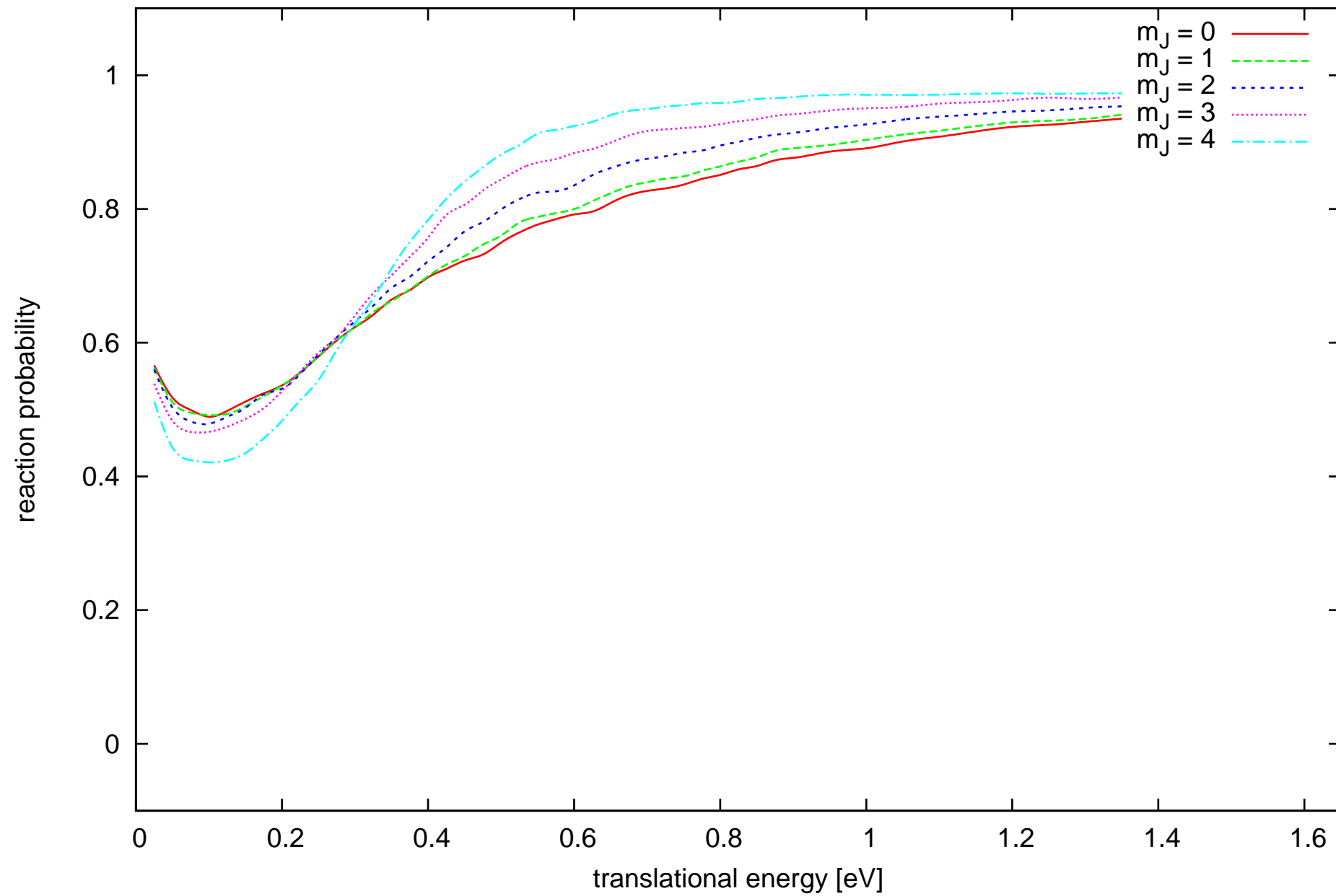
QCT Pt(211) D₂ -- state v = 1 J = 2



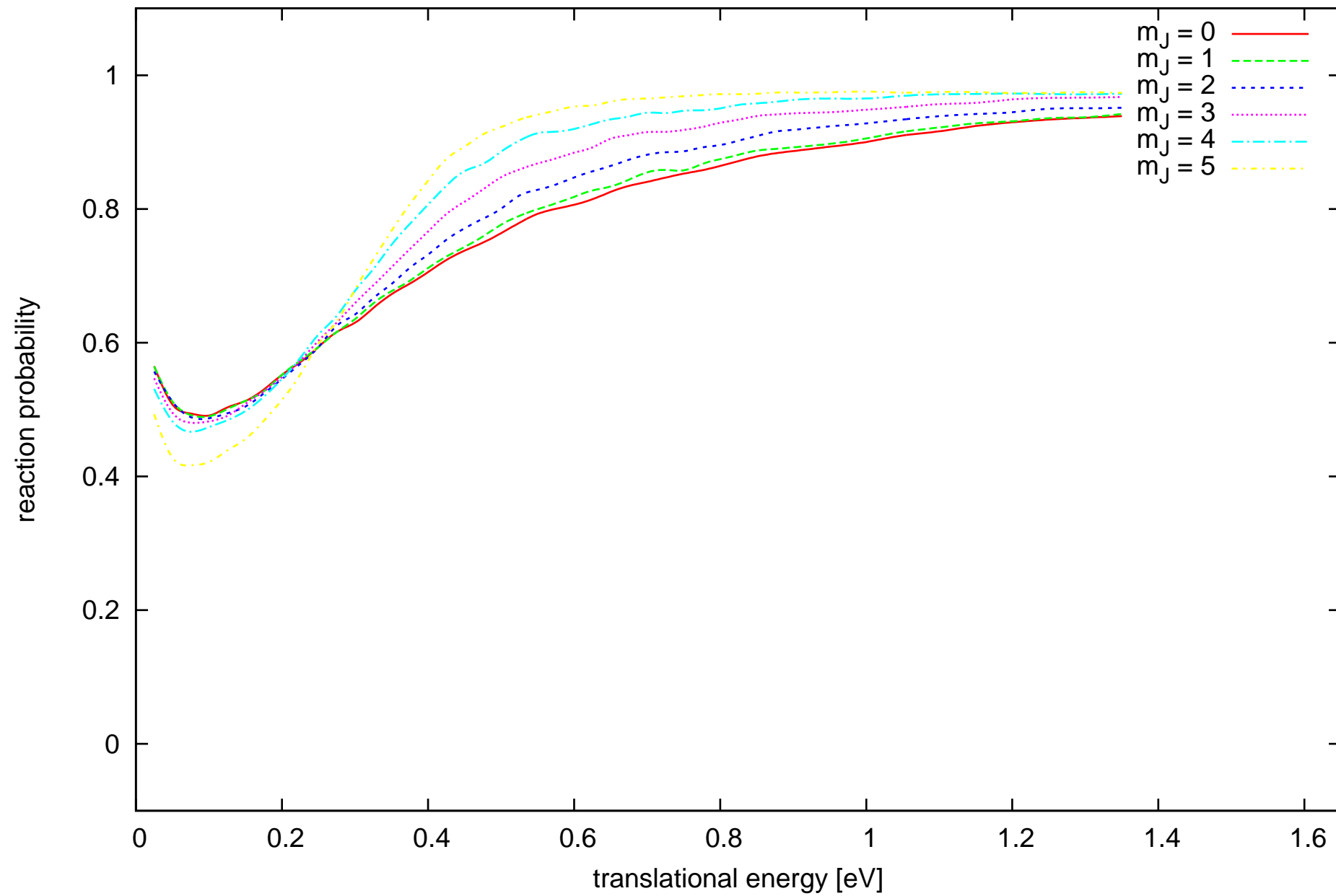
QCT Pt(211) D₂ -- state v = 1 J = 3



QCT Pt(211) D₂ -- state $v = 1$ $J = 4$



QCT Pt(211) D₂ -- state v = 1 J = 5



QCT Pt(211) D₂ -- state v = 1 J = 6

