

The figure is a 9x9 heatmap representing a 2D potential energy surface (PES) for the reaction $\text{H} + \text{H}_2$. The x and y axes are labeled from 0 to 8. The color scale ranges from dark purple (low energy) to yellow (high energy). The plot shows a reaction path from a reactant state (H at (0,0)) through a transition state (S at (4,4)) to a product state (G at (8,0)). The energy barrier is highest at the transition state (S) and lowest at the reactant and product states.

