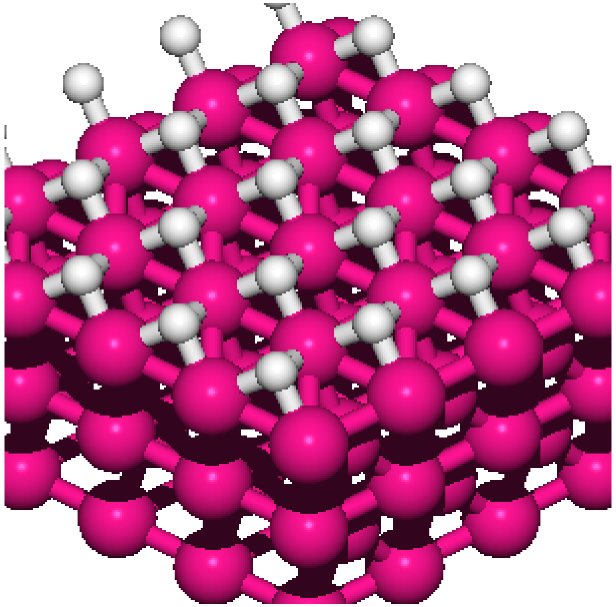
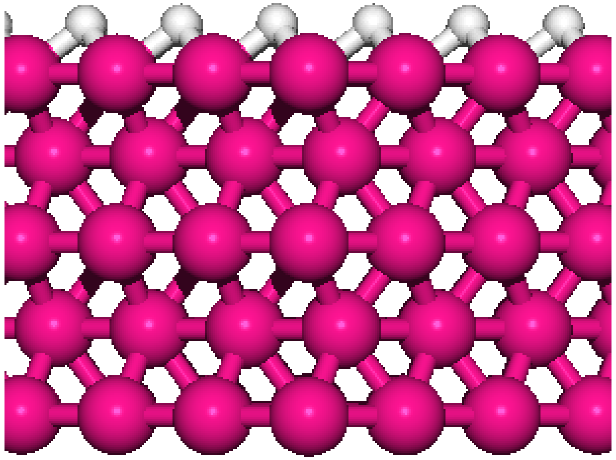
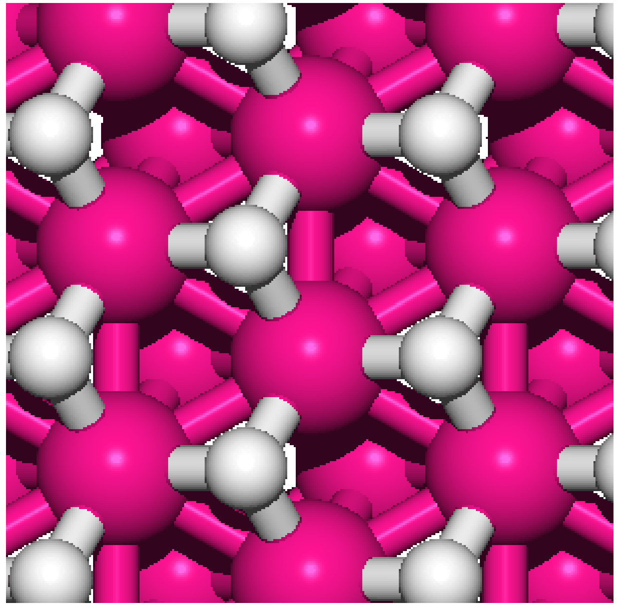
H adsorbed on Ru(0001)

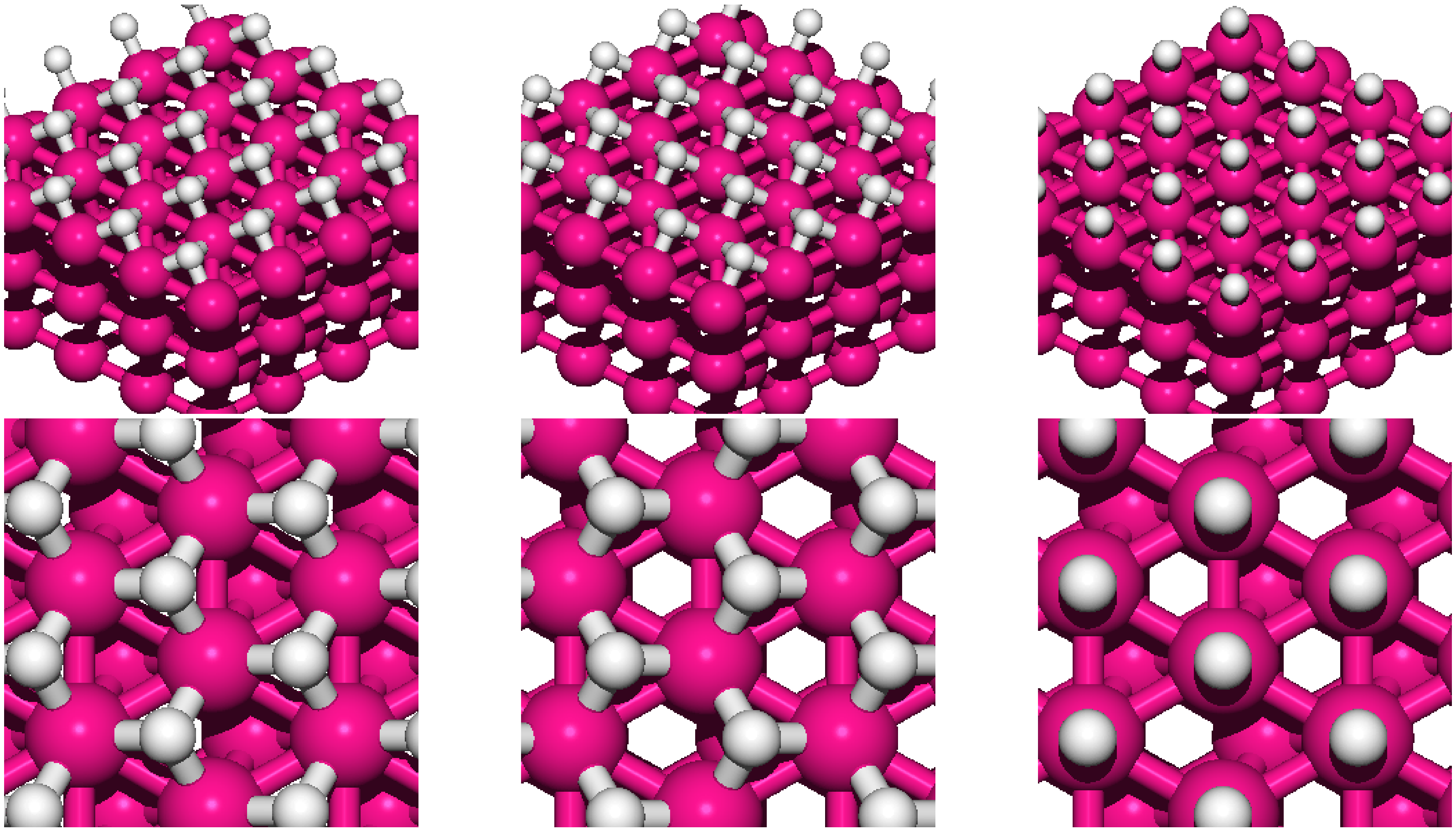






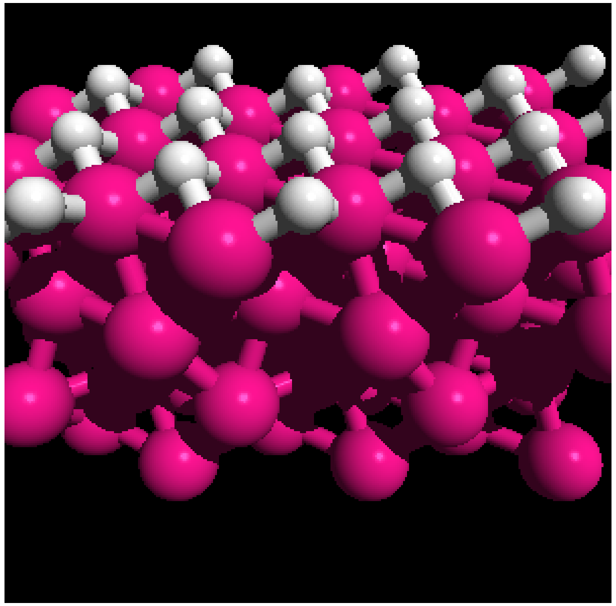
Ru-(1x1)-H_{fcc}

H adsorbed on Ru(0001)

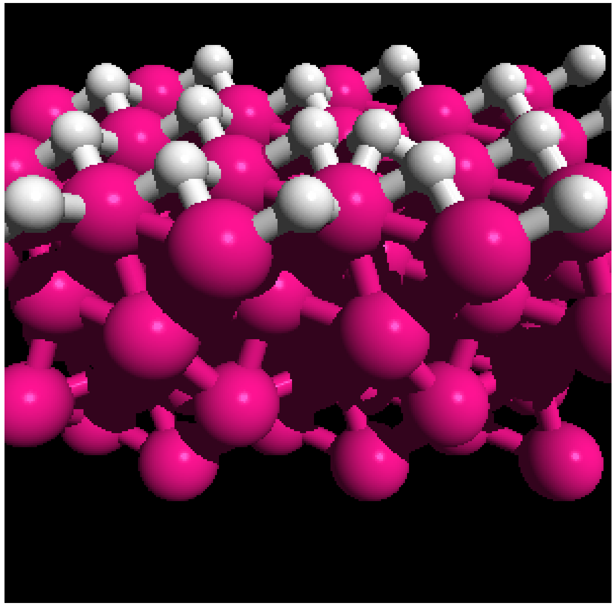


Ru-(1x1)-H_{fcc} Ru-(1x1)-H_{hcp} Ru-(1x1)-$H_{on\text{-}top}$

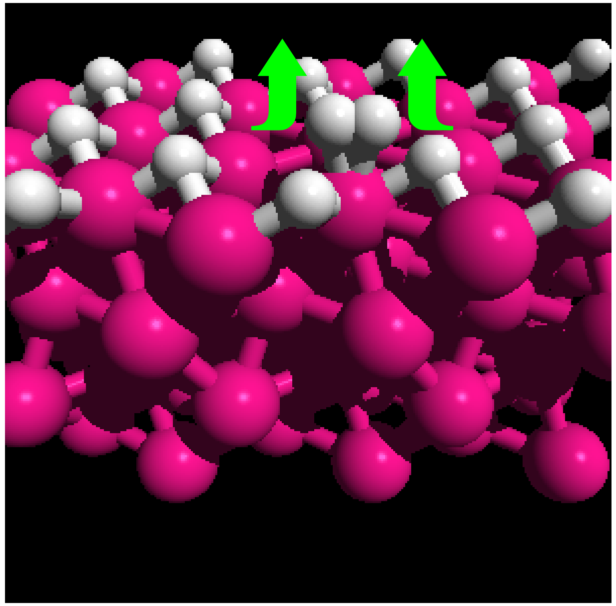
H_2 recombination on Ru(0001)



Ru-(1x1)-H_{fcc}



... one H ⇨ hcp ...



... & H_2 is formed

H/Ru(0001): Corrugation of PES