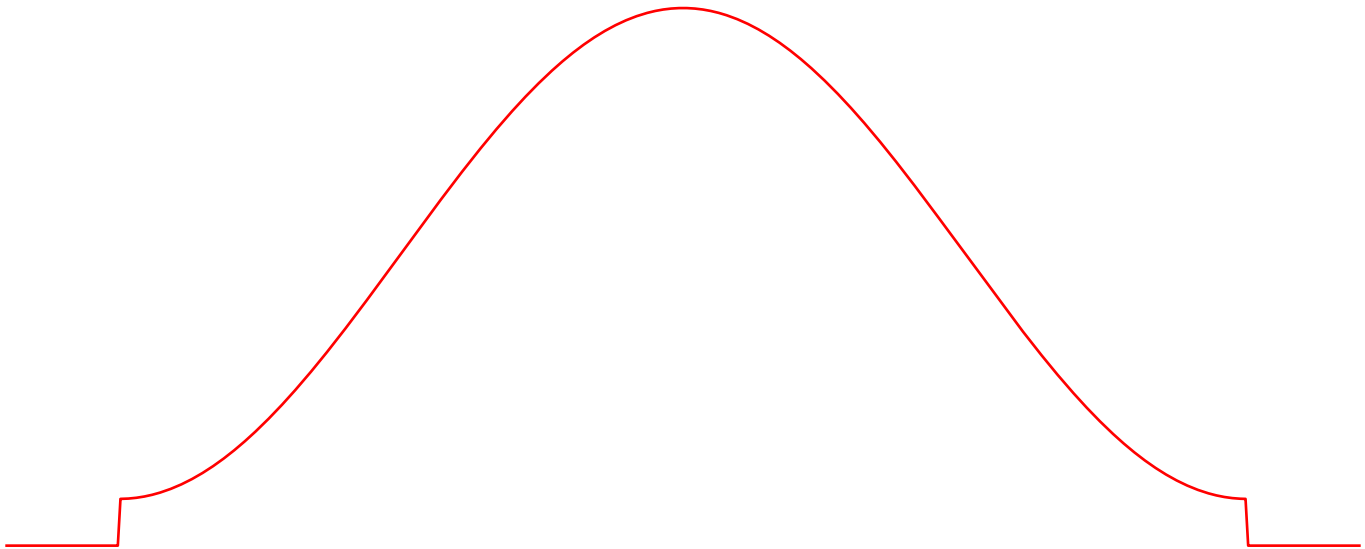class=Hamming