THE CURSE OF DIMENSIONALITY An Orange 8.1 units 1 unit long Pulp Skin In 3 dimensions, the Volume of pulp to the total Volume of the orange $T \times (0.9)^3 = 0.729 \approx 73\%$ No Tx (1)3

In 4 dimensing, the volue of ports in the 4 dimensional hypersphere TT (0.9)4 = 0.656 = 65% is In 40 dimensions, the volume becomes T (0.9) 40

TT (1) 40

TT (1) 40