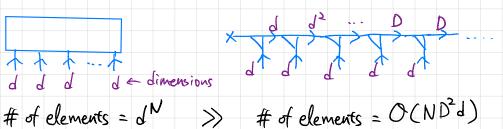
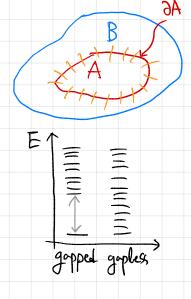
Area law of entanglement

Tensor networks as efficient representation of many-body states:

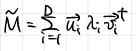


How can we use finite bond dimensions?: area law



Entanglement entropy between A&B a area of JA

- · 1D gapped: ~ const.
- · (1) gapless: n const + log L
- · 2D gapped: ~ L
- · 3D gapped: ~ L2



truncation error = discarded weight:

