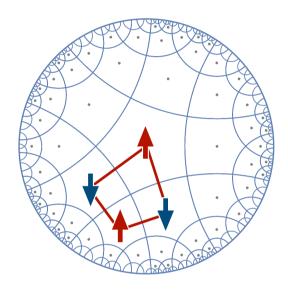
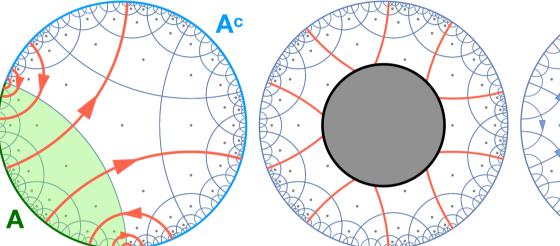
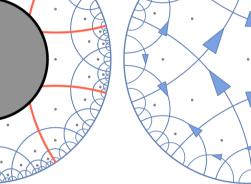
## FRACTON STATES AND HOLOGRAPHY

Han Yan, Okinawa Inst. of Sci. and Tech. Phys. Rev. B 99, 155126 and arXiv:1906.02305







$$\mathbf{\mathcal{H}_{cl}}^{\mathbf{1}} = -\sum_{i=1}^{\mathbf{2}} \mathcal{O}_p = \prod_{i=1}^{4} S_i^z$$

Motivated by fracton states of matter

**Obeys RT**formula and subregion duality key properties of holography

A naively defined black hole has the correct entropy

Equivlaent to another holographic construction — bit-thread model