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Holography Abhors Visible Trapped Surfaces[1] AASMUND FOLKESTAD, NETTA ENGELHARDT, Massachusetts Institute of Technology MIT — In this talk, I will explain how the consistency of the holographic dictionary implies a hallmark prediction of the weak cosmic censorship conjecture: that in classical gravity, trapped surfaces lie behind event horizons. We will see that causal wedge inclusion requires the formation of event horizons outside of strong gravity regions. Few assumptions are made beyond the absence of evaporating singularities in strictly classical gravity. Finally, I comment on the implication that spacetimes with naked trapped surfaces do not admit a holographic dual and speculate on the dual CFT interpretation of a trapped surface.

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