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Mini-course: A primer on celestial holography

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Holography in asymptotically flat spacetimes has received much attention recently and has been significantly developed along several different fronts. In one formulation known as celestial holography, quantum gravity in $d + 2$-dimensional asymptotically flat spacetimes can be reformulated as a conformal field theory that lives on the d-dimensional celestial sphere. In this mini-lecture series, I will introduce the basics of celestial holography, starting with an identification of the relevant symmetries of the problem, Ward identities and their relationship to soft theorems, and ending with a discussion of celestial CFTs and their structure.

(part 1)

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