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Conformal bootstrap, universality and gravitational scattering

In this lecture I'll describe a direct connection between the conformal bootstrap equations, quantum Teichmüller theory and non-perturbative gravitational scattering amplitudes in 3D gravity. As another physical application of these techniques, I'll present a novel intrinsic CFT construction of local bulk operators in the dual AdS space-time in terms of Ishibashi boundary states.