

Null infinity and the black hole horizon: new conserved quantities from a geometric duality

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I will present a unified treatment for the boundary geometry of asymptotically flat spacetime and black hole horizons. This geometric duality implies an exact inversion isometry for extremal, non-rotating horizons, which will be used to relate and derive new infinite towers of conserved quantities. This is a work in collaboration with Shreyansh Agrawal and Panagiotis Charalambous.

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