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Seeing the unseeable: First results from the Event Horizon Telescope and the physical origin of the asymmetric ring

Abstract

The Event Horizon Telescope (EHT) is a global effort to construct an Earth-sized virtual telescope array, with the ultimate goal to actually make pictures of some nearby supermassive black holes on event horizon scales. The initial results of the first full EHT observing run in April 2017 were presented at six global press conferences on April 10th 2019. In my talk I will overview the EHT data and results with focus on numerical modeling of black holes and physical interpretation of the EHT first images.