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## Quasinormal frequencies and black hole shadow radius: an analytical correspondence

Thursday 9 September 2021 17:50 (20 minutes)

We study the relation between quasinormal modes and geodesic quantities recently brought back due to the black hole shadow observation by Event Horizon Telescope. With the help of WKB method we found an analytical relation between the real part of quasinormal frequencies at the eikonal limit and shadow radius of the same black hole. Some examples fulfilling the correspondence are provided.

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