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## Gravitational lensing hundred years after the Eddington expedition

*Monday, September 23, 2019 9:00 AM (45 minutes)*

Exactly hundred years ago, in May 1919, Arthur Eddington and three colleagues observed the gravitational light deflection, as predicted by Albert Einstein, during a total Sun eclipse. After a historical introduction, I'll discuss the relevance of gravitational lensing as an important tool for present-day astrophysics. In the last part of the talk I will investigate in some detail the pictures of the shadow of the black-hole candidate at the centre of M87, which were released to the public on 10 April 2019, just hundred years after the Eddington expedition.

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**Session Classification:** Causality preservation and Chronology violation, CTCs