

JENTSCHKE LECTURE.

DESY Lecture in memory of Willibald Jentschke



“Black Holes and the Fate of the Universe”

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Max Planck Institute for Plasma Physics
Garching, Germany



Stellar remnants of the first generation of stars have been the seeds of supermassive black holes, which we find dormant in the centres of most nearby galaxies – including our own Milky Way. Using X-ray satellites we observe the growth phase of the population of supermassive black holes throughout the history of the Universe. What will be the fate of the black holes? They can live much longer than other forms of matter and structures in the Universe, but nevertheless must evaporate after a finite time. If Dark Energy indeed accelerates the expansion of the Universe forever, the most massive black holes can grow to hundreds of billions of solar masses, which can live as long as 10^{100} years - a truly unimaginable time span. The first compact objects, which entered the stage of the Universe, will then also be the last ones to leave it.

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DESY Auditorium
Notkestraße 85 | 22607 Hamburg | Germany

More Information: www.desy.de/jentschke

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