

FRAUNHOFER-INSTITUTE FOR APPLIED OPTICS AND PRECISION ENGINEERING IOF

EVENT NOTE

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Nobel Prize winner Reinhard Genzel guest at the "Noble Talks"

Virtual lecture and talk in Jena

Jena, Germany / Online

Together with Prof. Dr. Reinhard Genzel, we will travel to the black holes. The Nobel Prize winner will talk about his scientific journey of forty years as part of the virtual "Noble Talks" in Jena on September 29, starting at 4 p.m. Participation in the event via livestream is free of charge.

More than one hundred years ago, Albert Einstein published his Theory of General Relativity. One year later, Karl Schwarzschild solved the equations for a non-rotating, spherical mass distribution; if this mass is sufficiently compact, even light cannot escape from within the so-called event horizon, and there is a mass singularity at the center. The theoretical concept of a 'black hole' was born and was refined in the next decades by numerous scientific works.

"A 40-Year Journey": Insights into a scientific voyage of discovery

Reinhard Genzel is today one of the world's leading researchers in the field of black holes. In 2020, he was awarded the Nobel Prize in Physics for his research. In his lecture "A 40-Year Journey" on September 29 in Jena, the scientist will discuss the forty year journey, which his colleagues and he have been undertaking to study the mass distribution in the Center of our Milky Way from ever more precise, long term studies of the motions of gas and stars as test particles of the space time.

Following the lecture, guests are invited to address questions to Prof. Genzel. Participation in the event is possible via livestream: <https://youtu.be/Uw9QHUZP60E>

The event language is English. Registration is not required. For further information please have a look at the [event flyer](#) (German only).

Editorial Notes

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About the "Noble Talks" and the Beutenberg Campus Jena e.V.

The "Noble Talks" are organized in cooperation with the Beutenberg Campus Jena e.V. The Beutenberg Campus Jena e.V. is a non-profit association consisting of directors and managers of the research institutes and companies located on the Beutenberg Campus in Jena. It promotes cooperation at the campus and provides the public with a comprehensive picture of the research located there.

With its public lecture series "Noble Talks", the Beutenberg Campus Jena e.V. presents renowned scientists twice a year who present their research to a broad audience in a generally understandable form. The lectures deal with current topics in science and technology. The event is supported by funds from the Carl Zeiss Foundation.

Further information

<https://www.beutenberg.de/>

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