



Faculty of Science Seminars



Spring 2019

Prof. Dr. Metin Gürses

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History of Black Holes

Scientists pictured a black hole for the first time in great detail. This was achieved through a global network of radio dishes called "The Event Horizon Telescope" and produced the the first-ever direct image of a black hole. The existence of black holes was first proposed by physicists nearly a century ago following Albert Einstein's general theory of relativity, but the evidence was indirect. The Event Horizon Telescope now confirmed theoretical predictions and once more demonstrated that "a picture is worth a thousand words". There are more than one black holes in the universe and the attention of astrophysicist was concentrated on M87 and Sagittarius A* since 2017. The first clean picture came from M87 and it took two years to put together the data. It is now possible to observe that M87 is spinning clockwise in the sky. Scientists are now studying to understand how the black hole produces it gigantic jets.

Professor Gürses will discuss the science behind the observations and what lies ahead. Please watch the 2014 movie "Interstellar" and also see the information at <https://www.nature.com/articles/d41586-019-01155-0> before coming to the seminar. Bring your family members along, it will be fascinating to learn about this historic image and the power of science.



April 30
Tuesday



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15:40