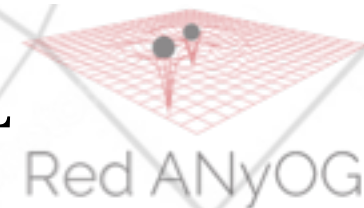


**THE MEXICAN DIVISION OF GRAVITATION AND MATHEMATICAL
PHYSICS AND THE
THEMATIC NETWORK OF BLACK HOLES AND GRAVITATIONAL
WAVES**



**CERTIFIES THAT
ALFREDO HERRERA**

Participated with the talk “*Analytic formulas for Kerr black hole mass and spin in terms of redshifts*”, in the *XII Mexican School of the Division of Gravitation and Mathematical Physics* and the *III School of General Relativity and Gravitational Waves*, that took place on 5-9 of November 2018 in Playa del Carmen, México.

Dr. Oscar Miguel Sabido Moreno

President

Division of Gravitation and Mathematical Physics

Dr. Claudia Moreno González

Responsable

Thematic Network of Black Holes and Gravitational Waves

