

1st Workshop on Gravity and Black Holes

October 21-22, 2019
IF-BUAP, Puebla, Mexico

Invited Plenary Talks

- **David Hughes (INAOE)**
Black hole shadows and the Large Millimeter Telescope
- **Ulises Nucamendi Gómez (UMSNH)**
Mass and spin of Kerr black holes from observations: Newton vs Einstein
- **Olivier Sarbach (UMSNH)**
Simple accretion models on Kerr black holes with a perfect fluid or a kinetic gas configuration
- **Eloy Ayón Beato (CINVESTAV)**
The role of symmetries in the Kerr-Schild derivation of the Kerr black hole
- **Daniel Fernando Higuera Borja (IPN)**
Towards new perspectives on Kerr's theorem
- **Omar López Cruz (INAOE)**
How big can black holes be? Is there a limit?
- **Ana Aurelia Avilez López (BUAP)**
On the possibility for scalar dark matter halos to form and host super-massive black holes

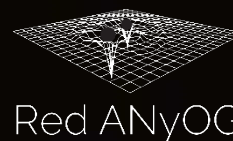
Organizing Committee

- Roberto Cartas Fuentesvilla
- Alberto Escalante Hernández
- Alfredo Herrera Aguilar

Venue: IFUAP Auditorium

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More Info: www.ifuap.buap.mx/eventos/2019/Poster_workshop_GBH19.pdf



1er Taller de Gravitación y Agujeros Negros

21-22 de octubre de 2019, IF-BUAP, Puebla, México

PROGRAMA

Lunes 21 de octubre

Moderador: Alfredo Herrera Aguilar

9:00-9:10 Palabras de bienvenida e inauguración a cargo de la Dra. María Eugenia Mendoza Álvarez, Directora del IFUAP y del Dr. Alfredo Herrera Aguilar por el Comité Organizador.

9:10-10:25 Plática plenaria # 1

David Hughes (INAOE)

Black hole shadows and the Large Millimeter Telescope

10:25-10:40 Café

10:40-11:55 Plática plenaria # 2

Ulises Nucamendi Gómez (UMSNH)

Mass and spin of Kerr black holes from observations: Newton vs Einstein

11:55-13:10 Plática plenaria # 3

Olivier Sarbach (UMSNH)

*Simple accretion models on Kerr black holes with a perfect fluid
or a kinetic gas configuration*

13:10-13:35 Plática corta # 1

Carlos Gabarrete Fajardo (UMSNH)

Kinetic gas configurations surrounding spherical compact objects

13:35-16:30 **Receso**

Moderador: **Roberto Cartas Fuentesvilla**

16:30-17:45 Plática plenaria # 4

Ana Aurelia Avilez López (BUAP)

*On the possibility for scalar dark matter halos to form and host
supermassive black holes*

17:45-18:00 **Café**

18:00-18:25 Plática corta # 2

Alexis Tepale Luna (UNAM)

Hyperscaling Violating Geometries in Scalar-Tensor theories of gravity

18:25-18:50 Plática corta # 3

Misael Mirón Monterrosas (BUAP)

Hyperscaling Violating Geometries in Einstein-Maxwell-dilaton theory

18:50-19:15 Plática corta # 4

Jhony Ariel Herrera Mendoza (BUAP)

Black holes and Hyperscaling Violating Geometries in string theory

Martes 22 de octubre

Moderador: **Roberto Cartas Fuentevilla**

9:00-10:10 Plática plenaria # 5

Eloy Ayón-Beato (CINVESTAV)

The role of symmetries in the Kerr-Schild derivation of the Kerr black hole

10:10-11:15 Plática plenaria # 6

Daniel Fernando Higuera Borja (IPN)

Towards new perspectives on Kerr's Theorem

11:15-11:30 Café

11:30-11:50 Plática corta # 5

Amaury Misael Durán González (BUAP)

On the Killing symmetries of Lifshitz spaces

11:50 -13:00 Plática plenaria # 7

Omar López Cruz (INAOE)

How big can black holes be? Is there a limit?

13:00-13:20 Plática corta # 6

Raúl Antonio Lizardo Castro (UNAM)

Estimación estadística de la masa de un agujero negro de Kerr

13:20-13:30 Clausura a cargo de los miembros del Comité Organizador:

**Roberto Cartas Fuentevilla
Alberto Escalante Hernández
Alfredo Herrera Aguilar**