

II Workshop on Current Aspects of Black Holes

December 5 - 6, 2024

Instituto de Física, BUAP

Invited Talks:

- **Rodrigo Bárcena Ramos (FCFM, BUAP)**
Black hole geodesic parametrization and curvature
- **Manuel de la Cruz López (IF, BUAP)**
Noncommutative effects in the IR holographic superconductor
- **José A. Escalante Javalera (IF, BUAP)**
Schwarzschild black hole parameters for elliptical orbits
- **Adriana González Juárez (IF, BUAP)**
Warping disk effect on the estimation of black hole parameters
- **Santiago González Salud (FCFM, BUAP)**
Gauss-Bonnet theorem for black hole characterization
- **Diego A. Martínez Valera (IF, BUAP)**
Regular black hole parameter estimation in conformal gravity
- **Mehrab Momennia (IFM, UMSNH)**
Accretion into spherically symmetric black hole spacetimes
- **Uriel Noriega Cornelio (FCFM, BUAP)**
On AdS_2 dilatonic black holes
- **Ulises Nucamendi Gómez (IFM, UMSNH)**
Cosmological models of braided gravity theories
- **Israel Quirós Rodríguez (DI, UGTO)**
Black holes & local scale symmetry
- **Amit Kumar Rao (DI, UGTO)**
BRST and superfield formalism
- **Déborah E. Villaraos Serés (IF, BUAP)**
Estimation of the Hubble constant from a general relativistic model

Venue:

- ☐ Thursday 5th – Meeting Room, IF3 building
- ☐ Friday 6th – Classroom #203, IF3 building

Organizing Committee:

- Roberto Cartas Fuentevilla
- Alberto Escalante Hernández
- Adriana González Juárez
- Alfredo Herrera Aguilar
- Mehrab Momennia

Foto: **Nebulosa de Orión**.

Crédito: Diego Aram Meneses Romero.



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PROGRAM

Thursday 5th

Chairman: Adriana González Juárez

15:50-16:00 Welcome and inauguration by Dr. Felipe Pérez Rodríguez

16:00-16:40 Talk #1

Black holes & local scale symmetry
Israel Quirós Rodríguez (DI, UGTO)

16:40-17:20 Talk #2

BRST and superfield formalism
Amit Kumar Rao (DI, UGTO)

17:20- 17:50 COFFEE BREAK

17:50-18:30 Talk #3

Accretion into spherically symmetric black hole spacetimes
Mehrab Momennia (IFM, UMSNH)

18:30-18:55 Talk #4

On AdS_2 dilatonic black holes
Uriel Noriega Cornelio (FCFM, BUAP)

18:55-19:20 Talk #5

Noncommutative effects in the IR holographic superconductor
Manuel de la Cruz López (IF, BUAP)

Friday 6th

Chairman: Alfredo Herrera Aguilar

09:00-09:40 Talk #6

Cosmological models of braided gravity theories
Ulises Nucamendi Gómez (IFM, UMSNH)

09:40-10:20 Talk #7

Warping disk effect on the estimation of black hole parameters
Adriana González Juárez (IFUAP, BUAP)

10:20-10:50 COFFEE BREAK

10:50-11:15 Talk #8

Estimation of the Hubble constant from a general relativistic model
Déborah Villaraos Serés (IFUAP, BUAP)

11:15-11:40 Talk #9

Schwarzschild black hole parameters for elliptical orbits
José Alfredo Escalante Javalera (IFUAP, BUAP)

11:40-12:05 Talk #10

Regular black hole parameter estimation in conformal gravity
Diego Armando Martínez Varela (IF, BUAP)

12:05-12:30 Talk #11

Black hole geodesic parametrization and curvature
Rodrigo Bárcena Ramos (FCFM, BUAP)

12:30-12:55 Talk #12

Gauss-Bonnet theorem for black hole characterization
Santiago González Salud (FCFM, BUAP)

13:00-16:00 LUNCH

16:00-18:00 Discussion session

18:00-18:05 Closing by Dr. Alfredo Herrera Aguilar

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