

50 Years of Horndeski Gravity: Exploring Modified Gravity

Monday, July 15, 2024

Contributed Talks: Contributed Talks (Session 1) - Federation Hall (3:45 p.m. - 5:00 p.m.)

| time | [id] title | presenter |
|-----------|--|---------------------------|
| 3:45 p.m. | [18] Photon Rings and Shadow Size for General Axi-Symmetric and Stationary Integrable spacetimes | SALEHI, Kiana |
| 4:00 p.m. | [85] Modified gravity getting to the one-point clustering statistics | UHLEMANN, Cora |
| 4:15 p.m. | [22] Generalized disformal Horndeski theories: consistency of matter coupling and cosmological perturbations | Dr TAKAHASHI, Kazufumi |
| 4:30 p.m. | [86] Quantum Energy Conditions and Bouncing Cosmologies | HULL, Brayden |
| 4:45 p.m. | [4] Spontaneous scalarization in scalar-Gauss-Bonnet gravity and beyond | Prof. YAZADJIEV, Stoytcho |

Tuesday, July 16, 2024

Contributed Talks: Contributed Talks (Session 2) - Federation Hall (2:15 p.m. - 3:30 p.m.)

| time | [id] title | presenter |
|-----------|---|--------------------|
| 2:15 p.m. | [40] Constructing rotating black holes in Horndeski gravity | BEN ACHOUR, Jibril |
| 2:30 p.m. | [87] Assessing observational constraints on dark energy | SHLIVKO, David |
| 2:45 p.m. | [10] Quasinormal modes and non-linear behaviour | MAY, Taillte |
| 3:00 p.m. | [15] Non-linear gravitational waves in Horndeski gravity | Dr ROUSSILLE, Hugo |
| 3:15 p.m. | [83] Formulating the complete initial boundary value problem in numerical relativity to model black hole echoes | DAILEY, Conner |

Wednesday, July 17, 2024

Contributed Talks: Contributed Talks (Session 3) - PI/1-100 - Theatre (2:15 p.m. - 3:30 p.m.)

| time | [id] title | presenter |
|-----------|---|-----------------------|
| 2:15 p.m. | [5] Constraining modified gravity models using galaxy cluster masses | Ms BUTT, Minahil Adil |
| 2:30 p.m. | [21] mochi_class: A tool to streamline cosmological analyses of Horndeski's gravity | Dr CATANEO, Matteo |
| 2:45 p.m. | [29] Testing gravity with the Dark Energy Survey | MUIR, Jessica |
| 3:00 p.m. | [13] A Cosmic Glitch in Gravity | Mr WEN, Yunfei |
| 3:15 p.m. | [36] Cosmological implications from DESI Y1 BAO and Future Forecasts | ZHANG, Hanyu |

Thursday, July 18, 2024

Contributed Talks: Contributed Talks (Session 4) - Federation Hall (2:15 p.m. - 3:30 p.m.)

| time | [id] title | presenter |
|-----------|--|------------------------------|
| 2:15 p.m. | [31] Bouncing cosmology; a solution to the singularity problem and more. | Mr DEGHANIZADEH, Amirhossein |
| 2:30 p.m. | [34] Gauss-Bonnet Gravity in 4D and the connection to Horndeski's Theory | Dr FERNANDES, Pedro |
| 2:45 p.m. | [8] How to study modified gravity as a particle theory and not collapse in the process | Dr SEVILLANO, Sergio |
| 3:00 p.m. | [19] Scattering amplitudes in high-energy limit of projectable Horava gravity | RADKOVSKI, Jury |
| 3:15 p.m. | [46] Theoretical status of Horava gravity | SIBIRYAKOV, Sergey |