

Tentative schedule of talks for the 18th PCGM

- Talks are given 10 minutes plus 2 minutes for questions.
- Rows in **pink** indicate student talks.

Friday Morning: First Session (9:30am - 10:50am)

| Time | Name | Affiliation | Title |
|---------------|---------------------|-----------------------------------|--|
| 9:30 - 9:42 | | | Introductory Remarks |
| 9:42 - 9:54 | Waldron, Andrew | UC Davis | Higher spins in cosmological backgrounds and how they kill Λ ; |
| 9:54 - 10:06 | Vankov, Anatoli | Rochester Institute of Technology | The problem of mass in cosmological and gravitational theories |
| 10:06 - 10:18 | Cooperstock, Fred | University of Victoria, Canada | Energy and gravity |
| 10:18 - 10:30 | Jorgensen, Jamie | Utah State University | What's my symmetry? Classifying spacetimes according to Petrov |
| 10:30 - 10:42 | Capovilla, Riccardo | CINVESTAV-IPN (Mexico) | Hamiltonians for curves |
| 10:50 - 11:10 | Break | | |

Friday Morning: Second Session (11:15am - 12:30pm)

| Time | Name | Affiliation | Title |
|---------------|------------------|--------------------------------|---|
| 11:15 - 11:27 | Hirschmann, Eric | Brigham Young University | Towards axisymmetric gravitational critical collapse |
| 11:27 - 11:39 | Calderon, Hector | Montana State University | Semiclassical back reaction on Schwarzschild-deSitter black holes |
| 11:39 - 11:51 | Surya, Sumati | University of Alberta (Canada) | A black hole non-existence theorem |
| 11:51 - 12:03 | Burko, Lior | University of Utah | Survival of the black hole's Cauchy horizon under non-compact perturbations |
| 12:03 - 12:15 | Isenberg, Jim | University Of Oregon | TBA |

Friday Afternoon: Third Session (2:30pm - 3:50pm)

| Time | Name | Affiliation | Title |
|-------------|----------------|-------------|---|
| 2:30 - 2:42 | Larson, Shane | Caltech | Optimized data analysis strategies for LISA |
| 2:42 - 2:54 | Evans, Matthew | Caltech | Lock Acquisition in Resonant Interferometers |
| 2:54 - 3:06 | Scheel, Mark | Caltech | Stability of the Einstein evolution equation I |
| 3:06 - 3:18 | Lindblom, Lee | Caltech | Stability of the Einstein evolution equation II |
| 3:18 - 3:30 | Chen, Yanbei | Caltech | Speedmeter interferometer for advanced LIGO |
| 3:30 - 3:42 | Wen, Linqing | Caltech | Filtering gravitational waves with the fast chirp transform algorithm |
| 3:50 - 4:10 | Break | | |

Friday Afternoon: Fourth Session (4:15pm - 5:45pm)

| Time | Name | Affiliation | Title |
|-------------|------------------------------------|---------------------------------|--|
| 4:15 - 4:27 | Berger, Beverly | National Science Foundation | Gravitational waveform filtering in expanding cosmological spacetimes |
| 4:27 - 4:39 | Bhawal, Biplab | Caltech | Mode matching in LIGO |
| 4:39 - 4:51 | Kopeikin, Sergei | University of Missouri-Columbia | Testing the relativistic effect of the propagation of gravity by very long baseline interferometry |
| 4:51 - 5:03 | Lu, K. U. | CSU Long Beach | Pulsating star as a possible source of gravitational wave |
| 5:03 - 5:15 | Cornish, Neil | Montana State University | Spinning compact binaries: Chaotic or not? |
| 5:15 - 5:27 | ^{Bell} Strasburg, Jana | University of Washington | Constraining the weight of gravity: A test of the strong equivalence principle using Lunar Laser Ranging |
| 5:27 - 5:39 | Kapner, Daniel | University of Washington | Short range test of Newton's inverse square law |

Saturday Morning: First Session (9:00am - 10:20am)

| Time | Name | Affiliation | Title |
|---------------|--------------------|---------------------------------|--|
| 9:00 - 9:12 | Kisseleva, Ludmila | St. Mary's College | Dynamical evolution of triple stellar and planetary systems |
| 9:12 - 9:24 | Tripathi, Mani | UC Davis | Experimental signatures for QG effects during flaring events in AGN. |
| 9:24 - 9:36 | Pitts, J. Brian | St. Edward's University (Texas) | The special relativistic approach to Einstein's equations |
| 9:36 - 9:48 | Singleton, Douglas | CSU Fresno | Wormhole toy model of fermions |
| 9:48 - 10:00 | Zafarullah, Ijaz | Montana State University | Semiclassical perturbations of slowly rotating black holes |
| 10:00 - 10:12 | Pezzaglia, William | Santa Clara University | Classical spin electrodynamics in background curvature plus torsion |
| 10:20 - 10:40 | Break | | |

Saturday Morning: Second Session (10:45am - 12:00pm)

| Time | Name | Affiliation | Title |
|-------------------------------|---------------------|--------------------------------|--|
| 10:45 - 10:57 | Laddha, Alok | University Of Utah | Canonical dynamics of weyl tensor |
| 10:57 ^{bell} - 11:09 | Bambeck, Daniel | Montana State University | Implications of neutrino masses for Hawking radiation |
| 11:09 - 11:21 | Guendelman, Eduardo | Ben Gurion University (Israel) | The two measures theory: Scale invariance breaking, the cosmological and fermion family problems |
| 11:21 - 11:33 | Goradia, Shantilal | University of Notre Dame | Gravity and Nuclear Forces-a potential link |
| 11:33 - 11:45 | Millward, Steven | Brigham Young University | Gravitational collapse of Yang-Mills-Higgs fields. Do black holes need barbers? |
| 11:45 - 11:57 | Salzman, Peter | UC Davis | Investigation of the time dependent Schroedinger-Newton equation |
| 12:00 - 1:30 | Lunch | | |

Saturday Afternoon: Third Session (1:30pm - 2:50pm)

| Time | Name | Affiliation | Title |
|----------------|----------------------|---------------------------------|--|
| 1:30 - 1:42 | Wang, Anzhong | Brigham Young University | Critical Collapse of Scalar Field in 3D AdS Background |
| 1:42 - 1:54 | Carlip, Steve | UC Davis | Conformal symmetry and entropy for dilatonic black holes |
| 1:54 - 2:06 | Torre, Charles | Utah State University | Some remarks on inhomogeneous quantum cosmology |
| 2:06 - 2:18 | Ahluwalia, Dharamvir | Facultad de Fisica UAZ (Mexico) | Interface of gravitational and quantum realms |
| 2:18 - 2:30 | Kirchbach, Marina | Facultad de Fisica UAZ (Mexico) | Space-time structure of massive gravitino |
| 2:30 - 2:42 | Balduz Jr, Jose L. | Mercer University | Quantum observer and spacetime hierarchies |
| 2:50 - 3:10 | Break | | |

Saturday Afternoon: Fourth Session (3:15pm - 4:30pm)

| Time | Name | Affiliation | Title |
|----------------|---------------------|---|---|
| 3:15 - 3:27 | Ellis, Homer | University of Colorado at Boulder | Space, space-time, and [space-time]--time |
| 3:27 - 3:39 | Tung, Roh | California Institute for Physics and Astrophysics | Hamiltonian of GR for spatially bounded regions |
| 3:39 - 3:51 | Holz, Daniel | UC Santa Barbara | Retro-MACHOs: Pi in the sky? |
| 3:51 - 4:03 | Trejos, Richard | Hill Air Force Base | Gravity |
| 4:03 - 4:15 | Hiscock, William A. | Montana State University | Gravitational waves from the galactic halo: A history |
| 4:15 - 4:27 | Leshanu, Constantin | Kiev University | Gravitation as hole radiation of matter |