

NR & Holography @ UdeC, 2017: Schedule

Morning theoretical sessions (and public lecture) at Auditorio Alamiro Robledo, Facultad de Ciencias Físicas y Matemáticas, First Floor.

Afternoon hands-on sessions at computers lab LC-304. Facultad de Ciencias Físicas y Matemáticas, Second Floor.

Monday November 27 th		
9:30-10:30	Lehner	PDEs, FD, boundaries, hyperbolicity and wave eqn on flat background
10:30-11:00		Coffee Break
11:00-12:00	Lehner	PDEs, FD, boundaries, hyperbolicity and wave eqn on flat background
12:00-13:00	Andrade	Introduction; Linear ODEs with Shooting
13:00-14:30		Lunch break
14:30-16:00	Lehner&Green	basic code, understand convergence, tests of validity of results (Coffee available)
16:00-16:30		Coffee break
16:30-18:00	Andrade	Linear ODEs and conductivity calculation

Tuesday November 28 th		
9:30-10:30	Lehner	ADM formulation, and BSSN/Gen Harmonic
10:30-11:00		Coffee Break
11:00-12:00	Lehner	ADM formulation, and BSSN/Gen Harmonic
12:00-13:00	Andrade	Linear ODEs with Relaxation
13:00-15:00		Lunch break
15:00-16:30	Lehner&Green	Modify wave eqn code for wave eqn on a black hole background
16:30-17:00		Coffee break
17:00-18:00	Dr. Luis Lehner: "Escuchando la sinfonía del Universo: Ondas gravitatorias y una nueva era en física y astronomía"	

Wednesday November 29 th		
9:30-10:30	Lehner	ADM formulation, and BSSN/Gen Harmonic
10:30-11:00		Coffee Break
11:00-12:00	Lehner	ADM formulation, and BSSN/Gen Harmonic
12:00-13:00	Andrade	Non-linear ODEs
13:00-14:30		Lunch break
14:30-16:00	Lehner&Green	Modify wave eqn code for wave eqn on a black hole background
16:00-16:30		Coffee break
16:30-18:00	Andrade	Quasi-normal Modes and Q-lattices

Thursday November 30 th		
9:30-11:00	Andrade	Linear PDEs
11:00-11:30		Coffee Break
11:30-13:00	Green	Superradiance
13:00-14:30		Lunch break
14:30-16:00	Andrade	Linear PDEs and the Poisson equation
16:00-16:30		Coffee break
16:30-18:00	Green	(A) QNMs in BHs or (B) Superradiance in charged BHs.

Friday December 1 st		
10:00-11:30	Green	Two-time scale theory
11:30-12:00		Coffee Break
12:00-13:30	Andrade	Non-Linear PDEs
13:30-15:00		Lunch break
15:00-16:30	Andrade	Non-linear PDEs and Holographic Lattices
16:30-17:00		Coffee break
17:00-18:00	Green	Simple application of two-time scale theory in Mathematica