

Course outline and reference material:

- * Gravitational Wave as linearized gravity, Green's functions (Gravitational Waves, vol. I, by M. Maggiore, sec. 1.1, 1.2)
- * Separation in potential and radiative degrees of freedom (arXiv:gr-qc/0501041)
- * Heuristic derivation of the flux formula for gravitational waves and waveform construction (Gravitational Waves, vol. I, by M. Maggiore sec. 1.4, 2.1, 3.1, 3.2, 3.3)
- * Derivation of a simplified waveform model, with numerical exercise in python, and element of data analysis (Gravitational Waves vol. I, by M. Maggiore, sec. 4.1.1, 7.1, 7.2, 7.3)