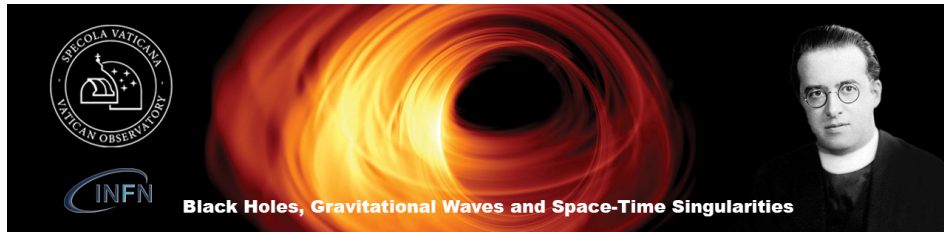


## Lemaître Conference 2024



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# LIGO is Quantum

*Wednesday 19 June 2024 15:40 (40 minutes)*

Is there a quantum to classical transition in physics somewhere between the microscopic to macroscopic? What is microscopic and macroscopic? Assuming we model macroscopic as the mass of size of the system, and using techniques I suggested in the early 80's, it is now known that the Ligo mirrors (40Kg, .5 m in size) center of mass motion is quantum. This talks will take us through simple model system for Ligo to pinpoint how the recent work has shown this.

**Presenter:** UNRUH, William (University of British Columbia)