

International Workshop on: Simulating gravitation and cosmology in  
condensed matter and optical systems



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## HELIOS, or the need for a CERN for analogs

*Thursday 25 July 2019 12:00 (15 minutes)*

I shall present two orders of arguments in favor of the realization of a facility where to explore, with analogs, territories of the theoretical landscapes, otherwise unreachable. There, theorists (both of the HEP-TH and of the COND-MAT types) should sit next to experimentalists (mostly of the COND-MAT type). I shall call this facility HELIOS, an evocative name for something that should shed light on the darkness of the unknown, and an acronym for "High Energy Laboratory for Indirect ObservationS".

The first type of arguments are scientific/epistemological (what is it we are looking for with analogs?). The second type of arguments are practical (financial, logistics and timeliness aspects).

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