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[colloquium] Effective field theories for phases of matter and cosmology

Thursday, October 27, 2022 3:00 PM (1h 20m)

I will review some modern applications of effective field theories outside their traditional particle physics domain. In particular, I will focus on spontaneous symmetry breaking for spacetime symmetries. The effective theories for the associated Goldstone excitations capture the low-energy/long-distance dynamics of a number of physical systems, from ordinary macroscopic media (solids, fluids, superfluids, supersolids) to more exotic cosmological ones.

Presenter: NICOLIS, Alberto (Columbia University)