

Q-MATH

seminar

HEISENBER-WEYL ALGEBRA, CONTACT STRUCTURES AND DISSIPATION

SPEAKER: Giuseppe Marmo (UC3M, Excellence Chair)

DATE: Wednesday, February 5, 2020 - 12:00

VENUE: UC3M, Seminar Room 2.2D08

ABSTRACT: The HW algebra defines a short exact sequence of Lie algebras, to allow for nonlinear transformations, it will be 'made' into a Lie-module. The dual picture of this module defines a contact structure. A contact structure will also appear when we consider a finite-level quantum system and take into account the Berry phase. Contact manifolds turn out to be the appropriate setting to describe some dissipative systems.