



ID de Contribution: 180

Type: Contribution orale

Topological amorphous solids: from flat-bands to chiral spin liquids

vendredi 7 juillet 2023 08:30 (30 minutes)

Topological materials are often predicted using crystal symmetries, although they don't rely on them to exist. Our methodology thus excludes all amorphous materials, which are ubiquitous in technology and can display properties beyond those of crystals. In this talk I will present recent theoretical progress and experimental signatures of amorphous topological solids. I will discuss how to predict them efficiently, and their potential to host novel and controllable topological phenomena, featuring flat-bands and gapped chiral spin-liquids.

Affiliation de l'auteur principal

Néel Institute

Auteur principal: G. GRUSHIN, Adolfo (Institut Néel, CNRS)

Orateur: G. GRUSHIN, Adolfo (Institut Néel, CNRS)

Classification de Session: Mini-colloques: MC21 Matériaux quantiques : des prédictions à l'observation

Classification de thématique: MC21 Matériaux quantiques : des prédictions à l'observation