Boris Desmorat

Title : Harmonic factorization and reconstruction of the elasticity tensor

Abstract : In this talk, we will present a factorization of a fourth-order harmonic tensor into second-order tensors: explicit equivariant reconstruction formulas are obtained, using second-order covariants, for transverse isotropic and orthotropic harmonic fourth-order tensors, and for trigonal and tetragonal harmonic fourth-order tensors up to a cubic fourth order covariant remainder.