



Colloquium Guido Castelnuovo

Martedì 11 Dicembre 2018

Ore 16:30 - 17:30

Dynamics, numerical analysis and some geometry

Geometric aspects play an important role in the construction and analysis of structure-preserving numerical methods for a wide variety of ordinary and partial differential equations. Here we review the development and theory of symplectic integrators for Hamiltonian ordinary and partial differential equations, of dynamical low-rank approximation of time-dependent large matrices and tensors, and its use in numerical integrators for Hamiltonian tensor network approximations in quantum dynamics.

oratore

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