



Dipartimento di Fisica
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HIGH ENERGY PHYSICS COLLOQUIA

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TOPOLOGICAL PHASES OF MATTER

Abstract

Topological ideas and quantum field theory methods find many applications in condensed matter physics. We will illustrate the role that topology can play in quantum many-body systems by discussing some of the most surprising and fascinating examples: quantum Hall effects, topological insulators and quantum spin chains. Special emphasis will be given to some of the ideas rewarded with this year's Nobel Prize: TKNN invariants, Haldane conjecture and KT transition (time permitting).

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