

topology in condensed matter pdf

In mathematics, topology (from the Greek *τοπος*, place, and *λόγος*, study) is concerned with the properties of space that are preserved under continuous deformations, such as stretching, twisting, crumpling and bending, but not tearing or gluing. An n-dimensional topological space is a space (not necessarily Euclidean) with certain properties of connectedness and compactness.

Topology - Wikipedia

Four on-lattice and six off-lattice models for active matter are studied numerically, showing that in contact with a wall, they display universal wetting transitions between three distinctive phases.

Condensed Matter authors/titles "new" - arXiv

Preface In the past few decades, the field of quantum condensed matter physics has seen rapid and, at times, almost revolutionary development. Undoubtedly, the success of the field

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In condensed matter physics, the term geometrical frustration (or in short: frustration) refers to a phenomenon, where atoms tend to stick to non-trivial positions [citation needed] or where, on a regular crystal lattice, conflicting inter-atomic forces (each one favoring rather simple, but different structures) lead to quite complex structures. As a consequence of the frustration in the ...

Geometrical frustration - Wikipedia

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4.8 Orders in condensed matter systems 4.8.1 Order parameter 4.8.2 Superfluid ⁴He and superconductors 4.8.3 General consideration 4.9 Defects in nematic liquid crystals

GEOMETRY, TOPOLOGY AND PHYSICS - stringworld.ru

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WEIRD SCIENCE: torsion fields, spin-waves in the vacuum

The Nobel Prize in Physics 2016 was divided, one half awarded to David J. Thouless, the other half jointly to F. Duncan M. Haldane and J. Michael Kosterlitz "for theoretical discoveries of topological phase transitions and topological phases of matter".

The 2016 Nobel Prize in Physics - Press release

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