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Ago Has Revolutionized Modern Condensed Matter Physics. Today, The Field Of Topological States Of Matter Is One Of The Most Active And Fruitful Research Areas For Both Experimentalists And Theorists. The Physics Of Topological Insulators Is Typically Well Described By Band Theory And Systems Of Non-interacting Fermions. Mar 1th, 2024

Colloquium: Topological Insulators

A Recurring Theme In Condensed-matter Physics Has Been The Discovery And Classification Of Distinctive Phases Of Matter. Often, Phases Can Be Understood Using Landau's Approach, Which Characterizes States In Terms Of Underlying Symmetries That Are Spontaneously Bro-ken. Over The Past 30 Years, The Study Of The Quantum Jan 1th, 2024

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All The Elements Required For Topological Currents Are Present In Neutron Stars: De-generate Matter, Large Magnetic Elds, And Parity Violating Processes. These Conditions Lead To The Creation Of Vector Currents Capable Of Carrying Momentum And Inducing Mag-netic Elds. We Estimate The Size Of These Currents For Many Representative States Of Dense Mar 1th, 2024

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Hall Conductivity As Topological Invariant In Phase Space

$NGpdGp=tr Pp-1 2i,,. 2 C 1 0 1 0$ Here C Is An Arbitrary Contour, Which Encloses The Fermi Surface [8] In Four-dimensional Momentum Space. Similarly, The Topological Stability Of Fermi Points Is Protected By [8, 9] $\partial P N DSG GG GG G= \text{¶¶¶¶} Mnrl Mn R L-- - 1 24 Tr . 3 S 3 2 11 1$ Here S Is The Surface Encompassing All The Fermi Points. Mar 1th, 2024

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Effective Field Theories Of Topological Insulators Eduardo Fradkin Department Of Physics And Institute For Condensed Matter Theory University Of Illinois AtMa Chan, Shinsei Ryu, Taylor Hughes And EF, ArXiv:1210.4305 Talk At The Workshop "Entanglement Spectra In Complex Quantum Wave Functions", Max Planck Institute For The Physics Of Complex ... Jan 1th, 2024

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