

Scalar, fermionic and supersymmetric field theories with subsystem symmetries

Wednesday, 7 December 2022 15:40 (20 minutes)

It is known that the field-theoretic model describing fractons, which have attracted much attention in condensed matter physics, is a theory with non-Lorentz covariant symmetry, called subsystem symmetry. More recently, a fermionic field theory that seems to be related to fractons has been constructed. In this presentation, we discuss detailed properties of these field theories.

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Session Classification: Parallel session A