Temp

Taper

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Abstract

(Unknown)

Contents

1 Classification of Topological states by Hamiltonian

Table 1: $d = 1$

Class A	$\mathcal{H} =$	Commments
$\mathbb{Z}$ class A III	$(m + \cos k_x)\sigma_z + \sin k_x \sigma_y$	$S = \sigma_x$
0 Class A	$(m + \cos k_x \sigma_z + \sin k_x \sigma_y$(SPEMT: $M\sigma_x$	No symmetries
$\mathbb{Z}_2$ class D	$(m + \cos k_x)\sigma_z + \sin k_x \sigma_y$	$C = \sigma_x K$ (Particle hole degree of freedom)
$\mathbb{Z}_2$ class DIII	$(m + \cos k_x)S_0\sigma_z + \sin k_x S_0 \sigma_y$	$C = \sigma_x K$(PH)$T = S_y K$, Spin 1/2
0 class AII	$(m + \cos k_x)S_0\sigma_z + \sin k_x S_0 \sigma_y$ SPEMT:$MS_x\sigma_x$	$T = S_y k$ Spin 1/2
$\mathbb{Z}$ class CII	$(m + \cos k_x)S_0\sigma_z + \sin k_x S_0 \sigma_y$	$T = S_y K, C = S_y \sigma_x K$

2 Anchor

References

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