**SSH – further ideas**

PhysRevA.105.L061502.pdf and Supplementary\_Material\_1.pdf (Feng – interactionod edge modes)

SongLPRJ2020\_Topological\_Couplers\_Edge\_States.pdf and lpor201900193-sup-0001-suppmat.pdf (transport – coupling )

PhysRevLett.126.073901.pdf and Bulk\_MI\_in\_PTIs\_supp.pdf (quadratic stationary lattice and Modulation inst)

PhysRevB.105.115133.pdf (Floquet – quadratic – driven systems)

hyp-1819-7.pdf (thesis – very useful for SSH relatd problems)

Boosted\_SSH\_draft\_20220601\_v2.pdf (booseted SSH)

ssh\_model.pdf (presentation – general one)

-Linear case:

Robustness of edge modes (different types of quenched disorder – on and inter site (hopping))

Modulated coupling (driven systems) [analogy with quadratic case]

Boosting?

Zero-modes on defect (majorana) [suggested in papers]

Interaction between (defect) majorana and edge modes [Papers]

-NL SSH

Modulation instability – Zak number determination (We possess code showing that)

Solitons generation

Interaction between edge modes and solitons

Transport and interaction of majorana modes (defect related) [Papers Feng and others]

-Next-nearest-neighbor interaction included in SSH (extended SSH)

Linear, nonlinear

-SSH like lattices [Rodrigo paper with stub SSH]

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