

1 Floquet systems

My notes on the topic

Formula for n_{edge} for number of edge modes for a given floquet unitary [1]

$$n_{edge} = W[U]_{U(\vec{k}, T)=1} = \int \frac{1}{8\pi^2} dk_x dk_y dt \text{Tr} [U_t^{-1} \partial_t U_t [U_t^{-1} \partial_{k_x} U_t, U_t^{-1} \partial_{k_y} U_t]]$$

Useful reference: [homotopy groups used in physics](#)

../sample.bib

References

- [1] Mark S. Rudner et al. *Anomalous edge states and the bulk-edge correspondence for periodically-driven two dimensional systems*. 2013. arXiv: [1212.3324](#) [[cond-mat.mes-hall](#)].