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Topological edge states in pnictides[1] CODY YOUMANS, City College of New York; The Graduate Center, CUNY, POUYAN GHAEMI, City College of New York, MEHDI KARGARIAN, University of Maryland — In some members of the ferro-pnictides, non-trivial topology in the bulk band-structure is related to potentially observable gapless edge states. We study these states numerically and analytically for a range of parameters, with and without superconductivity and anti-ferromagnetic SDW ordering, and their relation to the symmetries and topologically non-trivial aspects of our model Hamiltonian.

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Cody Youmans
City College of New York; The Graduate Center, CUNY

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