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The uses of Instantons for classifying Topological Phases<sup>1</sup> JUVEN WANG, Massachusetts Institute of Technology / Perimeter Institute for Theoretical Physics, XIAO-GANG WEN, Perimeter Institute for Theoretical Physics / Massachusetts Institute of Technology — A strategy of using instantons, zero modes and the index theorem for classifying topological phases is developed in this work. We argue that this approach is very powerful and can be applied to topological phases with or without a global symmetry in any (higher) dimensional spacetime. (this URL for a work summary: www.mit.edu/ juven/)

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