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Mikio Furuta and **Tian-Jun Li*** (tjli@math.umn.edu), School of Mathematics, University of Minnesota, Minneapolis, MN 55455. *The Pontrjagin-Thom constructions in non-linear Fredholm theories.*

We describe constructions of twisted framed bordism, stable homotopy and stable cohomotopy invariants associated to compact moduli spaces of non-linear elliptic equations. Applications to 4-manifold topology will also be mentioned. (Received January 25, 2006)