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**Jeremy L Marzuola\*** ([marzuola@math.unc.edu](mailto:marzuola@math.unc.edu)). *Solitons on manifolds.*

We will discuss the results of several joint ongoing projects (with subsets of collaborators Pierre Albin, Hans Christianson, Colin Guillarmou, Jason Metcalfe, Laurent Thomann and Michael Taylor), which explore the existence, stability and dynamics of nonlinear bound states and quasimodes on manifolds of both positive and negative curvature with various symmetry properties. (Received August 23, 2011)