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Jonas Luehrmann* (luehrmann@math.jhu.edu). *Concentration Compactness for Energy
Critical Geometric Wave Equations.*

In this talk we consider the Maxwell-Klein-Gordon equation and radially symmetric wave maps into compact target manifolds in the energy critical case. We discuss proofs of global regularity, scattering and a priori bounds of solutions for essentially arbitrary smooth data of finite energy along the concentration compactness/rigidity scheme. The key idea here is to introduce novel “twisted” profile decompositions to take into account the strong interactions in the nonlinearities. This is joint work with Joachim Krieger. (Received September 10, 2016)