1125-35-1729 **Hao JIA*** (`jiahao@math.ias.edu`). *Dynamics of nonlinear wave equations.*

We will survey recent results in the study of energy critical wave equations in connection with the soliton resolution conjecture. Several model equations will be discussed. In one model, we can demonstrate rigorously the important role played by stability property of solitons in the global dynamics. (Received September 19, 2016)