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Jacob K Sterbenz* (jsterben@math.ucsd.edu), Department of Mathematics, University of California, San Diego (UCSD), 9500 Gilman Drive # 0112, La Jolla, CA 92093-0112. *Scattering for a Resonant Klein-Gordon Equation.*

This talk will discuss joint work with Hans Lindblad, Igor Rodnianski, and Avi Soffer about global in time estimates for the one dimensional Klein-Gordon equation with inhomogeneous quadratic and cubic non-linearities. This involves several new normal forms transformations which take into account the spatial frequencies of the non-linear coefficients. The problem is motivated by stability questions for kink type equations. (Received February 23, 2010)