Cristian Gavrus* (cristian@berkeley.edu), Berkeley, CA 94704. Global well-posedness for the energy critical Massive Maxwell-Klein-Gordon equation with small data.

We discuss the global well-posedness and modified scattering for the massive Maxwell-Klein-Gordon equation in the Coulomb gauge on $\mathbb{R}^{1+d}$ ($d \geq 4$) for data with small critical Sobolev norm. This extends to positive mass $m^2 > 0$ the results of Krieger-Sterbenz-Tataru ($d = 4, 5$) and Rodnianski-Tao ($d \geq 6$), who considered the case $m = 0$. (Received July 31, 2017)