## GLOBAL WELLPOSEDNESS AND SCATTERING FOR SEMILINEAR WAVE EQUATIONS WITH POWER-TYPE NONLINEARITIES

ABSTRACT. I will outline a proof for global wellposedness for  $\Box u = |u|^{p-1}u$  in (1+3)-dimensions with initial data in the energy space for 3 as well as scattering for the critical case <math>p=5. I will then discuss global wellposedness and scattering for  $\Box_g u = u^5$  for certain small asymptotically flat perturbations of the Minkowski metric.