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# Global Analysis Defocusing Cubic Wave Equation

**global analysis of the defocusing cubic wave equation in ...** - global analysis of the defocusing cubic wave equation in dimension 3 ... t. roy, global well-posedness for the radial defocusing cubic wave equation on  $\mathbb{R}^3$  and for rough data, preprint, ... global analysis of the defocusing cubic wave equation in dimension 3 by tristan cyrus roy **global well-posedness and scattering for the defocusing ...** - defocusing energy-supercritical cubic nonlinear wave equation aynur bulut abstract. in this paper, we consider the defocusing cubic nonlinear wave ... then the solution is global and it scatters. our analysis is based on the methods ... number of papers; see, for instance, [3, 7, 19, 28, 32, 35, 36, 37]. **global well-posedness in the defocusing ...** **global well-posedness and scattering for the defocusing ...** - global well-posedness and scattering for the defocusing energy-supercritical cubic nonlinear wave equation ... in this paper, we consider the defocusing cubic nonlinear wave equation utt ... then the solution is global and it scatters. our analysis is based on the methods of the recent works of kenig and merle (2008) [21] and killip and visan ... **global existence for the defocusing mass-critical ...** - global existence for the defocusing mass-critical ... [din3] showed that the defocusing cubic fourth-order schrödinger equation is globally well-posed in  $H^s(\mathbb{R}^4)$  with  $60 \leq s \leq 53$  the defocusing energy-supercritical cubic nonlinear wave ... - the defocusing energy-supercritical cubic ... completing the analysis of global well-posedness and scattering under the assumed a priori bound for (ivp) in the energy-supercritical regime. ... therefore to complete the study of the defocusing cubic energy-supercritical nlw under the assumed uniform a priori control of the critical norm (1.3). **growth of sobolev norms in the cubic defocusing nonlinear ...** - we consider the cubic defocusing nonlinear schrödinger equation in the two dimensional torus. fix  $s > 1$ . recently colliander, keel, staiani, tao and takaoka proved the existence ... 7 the global map: proof of lemma 4.8 55 ... using more careful analysis of the proof we can establish existence of solutions **transfer of energy to high frequencies in the cubic ...** - transfer of energy to high frequencies in the cubic defocusing nonlinear schrodinger equation j. colliander, m. keel, g. staffilani, h. takaoka, and t. tao **global wellposedness of defocusing critical nonlinear ...** - global wellposedness of defocusing critical ... as a consequence of the analysis of the local ivp, if global wellposedness fails, there is necessarily a concentration effect of the solution on small balls (that ... with only cubic nonlinearity. in section 7, we indicate a variant of the method that **on the cauchy problem for focusing and defocusing gross ...** - rd, d 1, for cubic, quintic, focusing and defocusing interactions. for both the focusing and defocusing case, and any d 1, we prove local wellposedness of the cauchy problem in weighted sobolev spaces  $H^s$  ... using case, we prove global wellposedness in  $H^1$  of the cubic gp hierarchy for ...

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