

Publications

- [1]. *An explicitly soluble phase-transition problem in linear theory of elasticity*, Vestnik St-Petersburg University Math. 28 (1995), no. 4, 28-34
- [2]. *Regulated smoothing for Schrödinger evolution* (with L. Kapitanski), IMRN (1996), no. 2, 41-54
- [3]. *On the fundamental solution of a perturbed harmonic oscillator* (with L. Kapitanski and K. Yajima), Topol. Methods in Nonlinear Anal. Vol. 9 (1997), no.1, 77-106
- [4]. *Does a quantum particle know the time?* (with L. Kapitanski), IMA Volumes in Mathematics and Its Applications, Vol. 109, 355-371, 1999
- [5]. *Continued fractions and Schrödinger evolution*, Contemp. Math., 236 (1999), 311-323,
- [6]. *Shape and Morse theory of attractors* (with L. Kapitanski), CPAM, 53 (2000), no. 2, 218-242
- [7]. *Fractal solutions of the Schrödinger equation*, Contemp. Math., 255 (2000), 181-187
- [8]. *On the global regularity of wave maps in the critical Sobolev norm* (with S. Klainerman), IMRN (2001) no. 13, 656-677
- [9]. *A physical space approach to wave equation bilinear estimates* (with S. Klainerman and T. Tao), to appear in Journal d'Analyse de Jerusalem
- [10]. *Diophantine properties of the elements of $SO(3)$* (with V. Kaloshin), GAFA 11 (2001), no. 5, 953-970
- [11]. *Improved regularity results for the quasilinear wave equations* (with S. Klainerman), to appear in Duke Math. J.
- [12]. *Rough solutions of the Einstein vacuum equations (announcement)* (with S. Klainerman), C.R. Acad. Sci. Paris Ser. I Math., 334(2002), no.2, 125-130
- [13]. *Classical and quantum scattering for a class of long range random potentials* (with W. Schlag), to appear in IMRN
- [14]. *Dispersive estimates for the solutions of the Schrödinger equation with time-dependent and rough potentials* (with W. Schlag), submitted for publication
- [15]. *Rough solutions of the Einstein vacuum equations* (with S. Klainerman), submitted for publication
- [16]. *The causal structure of microlocalized rough Einstein metrics* (with S. Klainerman), submitted for publication
- [17]. *Ricci defects of microlocalized Einstein metrics* (with S. Klainerman), submitted for publication
- [18]. *Dispersive analysis of the charge transfer model* (with A. Soffer and W. Schlag), in preparation