

1012-35-35

Monica Visan* (mvisan@math.ucla.edu), UCLA Mathematics Department, Box 951555, Los Angeles, CA 90095-1555. *Well-posedness of energy-critical NLS in higher dimensions.*

We will survey recent results on the well-posedness of the energy-critical nonlinear Schrodinger equation in dimensions four and higher. Particular attention will be paid to difficulties arising from the low power of the nonlinearity. (Received August 15, 2005)