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On the L^2 critical NLS

In this talk I will give an overview of the global well-posedness results for the L^2 critical NLS below the H^1 norm. The recent result of Tao–Visan–Zhang proves global well-posedness in L^2 for radial data in higher dimensions $d \geq 3$. This problem is still open in lower dimensions and for nonradial data. In this talk I will present some recent results of global well-posedness that I obtained with De Silva, Pavlovic and Tzirakis for any data in H^{s_d} for a certain $0 < s_d < 1$.