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Smoothness and decay of dispersion managed solitons

We prove that dispersion managed solitons and their Fourier transform decay exponentially at infinity. These solitons are maximizers of L^2 to $L^4_{[0,1]} L^4_{\mathbb{R}}$ Strichartz estimates for the Schrodinger equation. This is a joint work with D. Hundertmark and Y.-R. Lee.