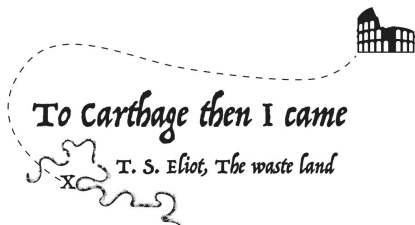


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9:30 (Tunis time – GMT+1, UTC+1)



Scattering for the NLS with variable coefficients on the line

In recent years an efficient framework was established to prove scattering for nonlinear dispersive equations, based on the combination of concentration-compactness principles and induction on energy arguments. Originally developed by Kenig and Merle, the framework has been adapted to several equations with constant coefficients. The presence of potential perturbations or variable coefficients introduces new difficulties due to anisotropy. In this talk I shall report on some new results, obtained in collaboration with Angelo Zanni (Roma), concerning scattering for a defocusing, subcritical NLS in one space dimension, with fully variable coefficients.