

We present a joint work with S. Cuccagna related with the scattering of solutions to

$$\begin{aligned}iu_t &= u_{xx} + V(x)u + u|u|^p \\ u(0) &= u_0 \in H^1(\mathbb{R})\end{aligned}$$

where $p > 6$, $V(x)$ is a periodic potential and u_0 is small.