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The method consists in applying Picard's fixpoint theorem to obtain a local solution to (2.2), choosing the time interval $t \in [0, \tilde{t}]$ sufficiently small depending on the size of the data.

Periodic Nonlinear Schrödinger Equation and Invariant Measures

Hobson&BenceMathematical Methods for Physics and Engineering (Cambridge). A slightly more sophisticated approach, which can often be clearer once you know what you are doing, is taken by Arfken & Weber Mathematical Methods for Physicists (Academic Press). i

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