

## Alexandru IONESCU

### On the long-term dynamics of solutions of water wave models

I will discuss some recent work on two main questions: (1) the existence of long-term solutions in certain water wave models, and (2) the dynamical formation of singularities. The talk will be based on recent work with several collaborators, F. Pusateri, B. Pausader, Y. Deng, V. Lie, and C. Fefferman.