1125-35-1761 **Benjamin Harrop-Griffiths*** (`benjamin.harrop-griffiths@cims.nyu.edu`), **Mihaela Ifrim** and **Daniel Tataru**. *Finite depth gravity water waves in holomorphic coordinates.*

We consider irrotational gravity water waves with finite bottom in 2d. We discuss the local well-posedness of this problem in holomorphic coordinates and establish cubic lifespan bounds for small initial data. This is joint work with Mihaela Ifrim and Daniel Tataru. (Received September 19, 2016)