
YANNICK SIRE, Johns Hopkins University
A posteriori KAM for PDEs

I will describe recent results in collaboration with R. de la Llave on an a posteriori KAM method for PDEs. In particular, our method uses very little of symplectic geometry and does not use transformation theory. It applies to ill-posed equations in the Hadamard sense and we will give applications to the so-called Boussinesq equation by constructing periodic solutions for it.