

We study abundance of a special class of elliptic islands for the standard family of area preserving diffeomorphism for large parameter values, i.e. far from the KAM regime. Outside a bounded set of parameter values, we prove that the measure of the set of parameter values for which an infinite number of such elliptic islands coexist is zero and that Carleson conjecture holds when restricted to this specific class of elliptic islands. On the other hand we construct a residual set of large parameter values of positive Hausdorff dimension for which the associated standard map admits infinitely many elliptic islands whose centers accumulate on a locally maximal hyperbolic set.