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 *$\mathcal{C}^1$  self-maps with all their periodic orbits hyperbolic*

The aim of this talk is to study in its homological class the periodic structure of the  $\mathcal{C}^1$  self-maps on the manifolds  $\mathbb{S}^n$  (the  $n$ -dimensional sphere),  $\mathbb{S}^n \times \mathbb{S}^m$  (the product space of the  $n$ -dimensional with the  $m$ -dimensional spheres),  $\mathbb{C}P^n$  (the  $n$ -dimensional complex projective space) and  $\mathbb{H}P^n$  (the  $n$ -dimensional quaternion projective space), having all their periodic orbits hyperbolic. This is a joint work with Professor Jaume Llibre from Universidad Aut3noma de Barcelona in Spain.