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Hamiltonian Dynamics and Symplectic Capacities

In 1985 Misha Gromov revolutionized symplectic geometry by proving his Nonsqueezing Theorem, and hence constructing the first symplectic 1-capacity. In 1989 Helmut Hofer asked whether symplectic $d$-capacities did exist if $1 < d < n$. I will discuss the answer to Hofer’s question and its relevance in symplectic geometry. This is joint work with San Vu Ngoc.