

On the local maximizers of higher capacity ratios

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Abstract. We prove an analogue of the 4-dimensional local Viterbo conjecture for the higher Ekeland-Hofer capacities: on the space of 4-dimensional smooth star-shaped domains of volume one, endowed with the C^3 topology, the local maximizers of the k -th Ekeland-Hofer capacities are those domains which are symplectomorphic to suitable rational ellipsoids.

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