

## ON THE EQUIVALENCE OF SYMPLECTIC CAPACITIES

JEAN GUTT

An important problem in symplectic topology is to determine when symplectic embeddings exist, and more generally to classify the symplectic embeddings between two given domains. Modern work on this topic began with the Gromov nonsqueezing theorem, which asserts that the ball symplectically embeds into the cylinder if and only if the radius of the ball is larger than that of the cylinder. Many questions about symplectic embeddings remain open, even for simple examples such as ellipsoids and polydisks. To obtain nontrivial obstructions to the existence of symplectic embeddings, one often uses various symplectic capacities. We shall discuss some questions about capacities, in particular the equality of two type of symplectic capacities. This is joint work with V. Ramos.