1014-53-550　　　　　**Peter Albers*** (`albers@cims.nyu.edu`), 251 Mercer Street, New York, NY 10012. *On the topology of Lagrangian submanifolds.*

It is well-known that the existence of an embedding $\iota : L \hookrightarrow M$ of a submanifold L into a symplectic manifold (M, ω) as a *Lagrangian* submanifold imposes restrictions on the topology of L. So far the *intrinsic topology* of Lagrangian submanifolds has been studied quite extensively. We will present new results in this direction.

Furthermore, we investigate the *extrinsic topology* using Floer homological methods. For Hamiltonianly displaceable Lagrangian submanifolds this leads to a vanishing theorem for the homomorphism $\iota_k : H_k(L) \to H_k(M)$ for certain degrees k. (Received September 20, 2005)

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