1019-55-163 **Remi Leclercq**^{*} (leclercq@dms.umontreal.ca). Spectral invariants in Lagrangian intersections Floer theory.

Consider a closed Lagrangian submanifold L, with trivial first homotopy group, of a symplectically aspherical manifold (M, ω) , whose first Chern class vanishes over its second homotopy group. For a generic pair of Hamiltonian function and almost complex structure, we associate a spectral number to each homology class of L. We show that these numbers are independent on the choice of almost complex structure and depend on the Hamiltonian function only by the image of L through the time-1-symplectomorphism induced by its flow. With the Biran-Polterovitch-Salamon isomorphism, we recover the spectral invariants defined by M. Schwarz for the symplectically aspherical manifold $M \times M$. From the Barraud-Cornea spectral sequence, we deduce some inequalities satisfied by these invariants. Then, we discuss the monotone case. (Received August 14, 2006)