

On the filtered symplectic homology of prequantization bundles

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In this talk we discuss the filtered symplectic homology, equivariant and not, of prequantization bundles with symplectically aspherical base. As an application, we establish several properties of spectral invariants, i.e., equivariant symplectic capacities. Some of these results have analogues for contact forms on the standard contact sphere and are new even in this case. We will also touch upon a different approach to the proof of the contact Conley conjecture, originally established by Gurel, Macarini and the speaker, relying on the equivariant symplectic homology rather than contact homology.