Summary: In this survey article, we describe imploded cross-sections, which were developed in order to solve the problem that the cross-section of a Hamiltonian $K$-space is usually not symplectic. In some specific examples we contrast the intersection homology of some imploded cross-sections with their homology intersection spaces. Moreover, we compute the homology of intersection spaces associated to the open cone of a simply connected, smooth, oriented manifold and the suspension of such a manifold.

MSC:

37-XX Dynamical systems and ergodic theory
53Dxx Symplectic geometry, contact geometry

Keywords:
symplectic; implosion; cross-section; Hamiltonian system

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References:


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