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# ON THE GEOMETRY OF LOCALLY CONFORMAL SYMPLECTIC MANIFOLDS

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We describe some basic examples of locally conformal symplectic (LCS) structures, (these are given by non-degenerate 2-forms which, locally become closed when multiplied by a local positive function). We show the connection between LCS structures and symplectic, contact, Jacobi structures. We introduce the following invariants of LCS structures: the infinitesimal and global automorphisms, a cohomological conformal invariant (living in the first cohomology group of the automorphism group), the Lee homomorphism, and the adapted cohomologies of the underlying manifold. Finally, we discuss some applications to Mechanics.