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Higher rank Boothby-Wang fibrations

The Boothby-Wang theorem gives the conditions under which a contact manifold is a prequantum circle bundle over a symplectic manifold. Since there are many different ways to characterize contact geometry, it is perhaps not surprising that there are several inequivalent generalizations to distributions of higher corank. The definition of a contact metric structure provides one such generalization, known as an almost S-structure, to which a generalized Boothby-Wang theorem applies: I will show that a manifold equipped with a regular almost S-structure is a principal torus bundle over a symplectic manifold. Time permitting, I will describe other properties of such structures, including symplectization, associated Jacobi structures, and connections to CR geometry.