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Invariant Lagrangians on Homogeneous Manifolds

Abstract: Let $M = G/H$ be a homogeneous manifold, a Lagrangian $L : TM \to \mathbb{R}$ is said to be *invariant* if for the canonical left action $\Phi_g : M \to M$, $g \in G$ of the homogeneous manifold, $L \circ T\Phi_g = L$, $g \in G$ holds. Since thus a natural generalization of the concept of homogeneous Riemannian manifolds is obtained, the extension of their classical theory to invariant Lagrangians is interesting and will be discussed in the lecture.