# Characteristic classes of smooth fibrations

**Abstract:** The main aim of this talk is to find nontrivial elements in $H^*(B_G)$, where $G$ is the group of diffeomorphisms (symplectomorphisms) of a smooth (symplectic) manifold $M$. They will be obtained as fiber integrals of monomials in Pontriagin (Chern) classes of the bundle tangent to the fibers of the universal fibration

$$M \to M_G \to B_G.$$

I will provide explicit computations for M being a symplectic toric variety.