## "Projective structures and invariant differential operators" Valentin Ovsienko

A (flat) projective structure on a smooth manifold M is a local identification of M with the real projective space. We will discuss the problem of existence and classification of projective structures. In particular, we give a simple proof of the following theorem: two projective structures which are homotopic in the class of projective structures with the same monodromy, are equivalent. This is a multi-dimensional analog of the classical result in the case of the circle (Kuiper-Kirillov-Segal-...).