

Seminarium geometrów

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Actions with sections

Abstract: An action of G on X has a section if there is a map $s: X/G \rightarrow X$, such that the composition of s and the quotient map of the action is the identity on X/G .

For actions of discrete groups this notion is equivalent to the notion of strict developable complex of groups, but clearly the notion is well suited for the study of actions of topological groups, and moreover there are many examples of usefulness of such actions, including quasitoric manifolds.

I will discuss examples, definitions and computations one can perform in this class of actions.