

**Sarkisyan, R. A.; Shandra, I. G.****Regularity and Tresse's theorem for geometric structures.** (English. Russian original)[Zbl 1148.53011](#)[Izv. Math.](#) 72, No. 2, 345-382 (2008); translation from *Izv. Ross. Akad. Nauk, Ser. Mat.* 72, No. 2, 151-192 (2008).

Tresse's theorem about the finitely based invariants of a Lie pseudo-group for the  $k$ -jet space  $J^k$  is established and the regularity of fiber points (local constancy of orbit dimensions) is proved. The paper is a continuation of [*R. A. Sarkisyan*, *Izv. Math.* 70, No. 2, 307-362 (2006); translation from *Izv. Ross. Akad. Nauk, Ser. Mat.* 70, No. 2, 99-158 (2006; [Zbl 1106.53010](#))]. See also *A. Tresse* [*Acta Math.* 1-88, see also (1893) *Thèse présentée à la Faculté des Sciences de Paris*, No. 794 (1894; [JFM 25.0641.01](#))]; *A. S. Shmelev* [*Funct. Anal. Appl.* 31, No. 2, 119-125 (1997); translation from *Funkts. Anal. Prilozh.* 31, No. 2, 58-66 (1997; [Zbl 0920.58003](#))].

Reviewer: [Maido Rahula \(Tartu\)](#)**MSC:**[53A55](#) Differential invariants (local theory), geometric objects[58A20](#) Jets in global analysisCited in **1** Document**Keywords:**[Lie pseudo-group for jet space; invariants and orbits](#)**Full Text:** [DOI](#)