

PUBLICATION LIST - DR. ANDREAS FISCHER

Publications

- (1) *John functions for o-minimal domains*
Advances in Geometry, accepted, March, 2009.
- (2) *Definable Versions of Theorems by Kirszbraun and Helly* (with Matthias Aschenbrenner)
Proceedings of the London Mathematical Society (2010) doi: 10.1112/plms/pdq029
- (3) *Positivstellensätze for differentiable functions*
Positivity, online, June 2010.
- (4) *Infinitely Peano differentiable functions in polynomially bounded o-minimal structures*
Annals of Pure and Applied Logic, Volume **161**, Issue 12, September 2010, Pages 1520-1524.
- (5) *Singularities of o-minimal Peano derivatives*
Mathematische Nachrichten, Volume **283** Issue 6 (2010), 828-845.
- (6) *O-minimal Peano Differentiable Extensions*
Advances in Geometry **10** (1) 2010. p. 31-49.
- (7) *Definable Smoothing of Lipschitz Continuous Functions*
Illinois Journal of Mathematics, Volume **52**, Number 2, Summer 2008, Pages 583-590.
- (8) *Subanalytic Blow- C^m functions* (with Krzysztof Kurdyka)
Proceedings of the American Mathematical Society, **137**, No. 7, (2009), 2285-2291.
- (9) *O-minimal analytic separation of sets in dimension 2*
Annals of Pure and Applied Logic, **157**, (2009), 130-138.
- (10) *Zero-Set Property of O-Minimal Indefinitely Peano Differentiable Functions*
Annales Polonici Mathematici **94**, No. 1, (2008), 29-41.
- (11) *Smooth Approximation of Definable Continuous Functions*
Proceedings of the American Mathematical Society, **136** (2008), no. 7, 2583-2587.
- (12) *Smooth functions in o-minimal structures*
Advances in Mathematics **218**, (2008), 496-514.
- (13) *Differentiability of Peano Derivatives*
Proceedings of the American Mathematical Society, **136**, No. 5, (2008), 1779-1785.

- (14) *Extending o -minimal Fréchet Derivatives*
Annales Polonici Mathematici, **92**, No. 2 (2007), 179-189
- (15) *O -Minimal Λ^m -Regular Stratification*
Annals of Pure and Applied Logic, **147** (2007) 101-112.

Preprints

- (16) *The Riemann mapping theorem for o -minimal functions*, January, 2008
- (17) *Definability of algebraic models*, June, 2008
- (18) *On compositions of subanalytic functions*, October, 2008
- (19) *On sums of subanalytic functions*, November, 2008
- (20) *On smooth locally o -minimal functions*, January, 2009
- (21) *A strict Positivstellensatz for definable quasianalytic rings*, April, 2009
- (22) with Murray Marshall *Extending piecewise polynomial functions in two variables*, May, 2009