1139-32-327 **Edward Bierstone*** (bierston@math.toronto.edu), University of Toronto, Department of Mathematics, 40 St. George Street, Toronto, Ontario M5S2E4, Canada. *Geometry of quasianalytic classes.*

Quasianalytic classes are classes of infinitely differentiable functions that enjoy the analytic continuation property of holomorphic functions. They are the objects of classical studies in real analysis (e.g., the Denjoy-Carleman theorem), and the last 20 years have seen the development of remarkable relationships with algebraic geometry (resolution of singularities) and model theory (o-minimal structures). I will talk about these developments, recent results on the solutions of quasianalytic equations, and open problems. (Received February 15, 2018)