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**Pengfei Guan\*** ([guan@math.mcgill.ca](mailto:guan@math.mcgill.ca)), Department of Mathematics and Statistics, McGill University, Montreal, Quebec H3A 2K6, Canada. *Analysis of the Monge-Ampère type equations.*

We discuss problems related to the Monge-Ampère type equations. This type of equations naturally arise from geometry. The talk will devote to the analysis of the geometric properties of the solutions of these equations. (Received March 28, 2010)