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**Jesus A. De Loera\*** (deloera@math.ucdavis.edu), Dept. of Mathematics, Univ. of California, Davis, CA 95616, and **Shmuel Onn**, Dept. of Operations Research, Technion, Haifa, Israel. *A canonical form for polytopes and its algorithmic consequences*. Preliminary report.

In this talk we present the following result: Every convex polytope is a face of an axial 3-way transportation polytope. The face in question can be found very explicitly, which in a way means that one can rewrite any linear inequality system into a special canonical form. This has several interesting consequences in linear and integer programming. (Received February 20, 2006)