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**YURIY ZINCHENKO**, University of Calgary

*On the curvature of the central path for linear programming*

Similarly to the diameter of a polytope, one may define its curvature based on the worst-case central path associated with solving an LP posed over the polytope. Furthermore, a continuous analogue of the Hirsch conjecture and a discrete analogue of the “average curvature” result of Dedieu, Malajovich and Shub may be introduced. A continuous analogue of the result of Holt and Klee –a polytope construction that attains a linear order largest total curvature– and a continuous analogue of a d-step equivalence result for the diameter of a polytope may also be proved. We survey the recent progress towards better understanding of the curvature.