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Ted Bisztriczky* (tbisztri@math.ualgary.ca). *Edge-antipodal polytopes*. Preliminary report.

An edge-antipodal d -polytope P has the property that any two vertices of P , that are incident with an edge of P , are antipodal; that is, the two vertices lie on distinct parallel supporting hyperplanes of P . In this joint work with K. Boroczky, we examine simple edge-antipodal polytopes and introduce a program for investigating arbitrary edge-antipodal polytopes. (Received February 22, 2007)