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**Federico Castillo\*** (fcastillo@ku.edu), 405 Snow Hall, 1460 Jayhawk Blvd., Lawrence, KS 66045. *Type cones of product of simplices.*

Given a polytope  $P$  the goal is to study the set of all weak Minkowski summands of  $P$ . This set can be parametrized by a polyhedral cone, called the type cone of  $P$ . Here we follow the ideas of McMullen to treat the case when  $P$  is combinatorially equivalent to a product of simplices (this includes for example combinatorial cubes) and prove that these cones are simplicial, i.e., they have the least possible amount of faces. This is joint work with B.Groeckner, J. Doolittle, Y.Li, and M.Ross. (Received September 10, 2019)