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Lev Borisov* (borisov@math.rutgers.edu), 110 Frelinghuysen Rd, Hill Center, Mathematics Department, Piscataway, NJ 08854. *Vertex algebras associated to reflexive Gorenstein cones.*

Toric mirror symmetry has led to the construction of families of $N=2$ vertex algebras associated to pairs of reflexive Gorenstein cones and coefficient functions. These algebras and their representations are overall poorly understood. I will highlight the motivation and the construction of these algebras and state open questions in hope that other participants of the special session will try to answer them. (Received January 20, 2016)