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Mohamed Omar* (omar@g.hmc.edu), 301 Platt Blvd, Claremont, CA 91711. *Convex codes and commutative algebra.*

Recently, much attention has been given to the use of commutative algebra in understanding questions on convex incidences. We report on these advances, and discuss recent work on understanding piercings in convex realizations through an algebraic lens. (Received March 16, 2017)