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Mohamed Omar* (omar@g.hmc.edu), 301 Platt Boulevard, Claremont, CA 91711. *Convex incidences, neuroscience, and ideals*. Preliminary report.

Neural rings were introduced by Curto et. al as a means of studying convex incidence questions arising from neuroscience through an algebraic lens. We study ideals in these rings and classify homomorphisms that preserve neural ideals. (Received February 10, 2016)