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Florian Enescu and **Sara L. C. Malec*** (smalec@pacific.edu), 3601 Pacific Ave, Stockton, CA 95207. *Intersection algebras for principal monomial ideals in polynomial rings.*

The intersection algebra of two ideals in a commutative Noetherian ring is a natural concept which is presently poorly understood. Results are obtained regarding the Hilbert series and the canonical ideal of the intersection algebra using methods from the theory of diophantine linear equations with integer coefficients. (Received September 16, 2014)