

Dr. Balwant Singh

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Dr. Balwant Singh's interest is in the following two problems in Commutative Algebra:

1. Study of seminormality of rings and subintegrality of extensions of rings and their relationship to invertible modules and the Picard group.
2. The Jacobian Conjecture in dimension two (which states that if the Jacobian of two polynomials f and g of two variables X and Y over a field of characteristic zero is a nonzero constant then X and Y are polynomials in f and g).