

Poincaré-Hopf Theorem for Isolated Determinantal Singularities

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Let X be a projective algebraic d -variety endowed with isolated determinantal singularities, and let ω be a 1-form on X exhibiting a finite number of singularities (in the stratified sense). Under some technical conditions, we use two generalizations of Poincaré-Hopf index with the goal of proving a Poincaré-Hopf Type Theorem for X .