1113-13-265   **Ashley K. Wheeler*** (`ashleykw@uark.edu`), Department of Mathematical Sciences, University of Arkansas, Fayetteville, AR 72701. *Ideals Generated by Principal Minors.* Preliminary report.

A minor of a square matrix is *principal* means its column and row indices are the same. Given a polynomial ring in the entries of a generic square matrix X, over a field, we study the ideals $\mathfrak{P}_t$ generated by principal minors of a fixed size t. For any size generic matrix, $\mathfrak{P}_2$ is prime and defines a normal complete intersection with rational singularities (in characteristic $p \neq 0$). If X is size $n \geq 4$, then the ideals $\mathfrak{P}_{n-1}$ have two minimal primes; when $n = 4$, $\mathfrak{P}_{n-1}$ is reduced and both minimal primes have height 4. (Received August 24, 2015)