

Lemma 2. If $J = \sum_{i=1}^k \oplus J_i(\lambda) \in M_n$ and $J_i(\lambda) \in M_{m_i}$ 2102 28
 $(t - \lambda)^m$ where $m = \max \{m_1, m_2, \dots, m_k\}$ is minimal poly.

$g_f(t)$ 이다

$$\left(\begin{array}{l} \therefore (J - \lambda I)^m = 0 \text{ o.i.d} \\ (J - \lambda I)^r \neq 0 \text{ } \forall r < m \text{ o.i.d} \\ \therefore [J_{m_F}(\lambda) - \lambda I]^r \neq 0 \text{ } \forall r < m \end{array} \right)$$

११५ Lemma ११.५.१.