

- Let $\{T, Q_i, 1 \leq i \leq k\}$ be a partition of \mathcal{N}_n .
- The tuple $(T, Q_i, 1 \leq i \leq k)$ defines the following FCMI on X_1, X_2, \dots, X_n :

$$K : X_{Q_1}, X_{Q_2}, \dots, X_{Q_k} \text{ are mutually independent conditioning on } X_T.$$
- Denote K by $(T, Q_i, 1 \leq i \leq k)$.