

**Definition 12.18** The image of a set of FCMI's  $\Pi = \{K_l, 1 \leq l \leq k\}$  is defined as

$$Im(\Pi) = \bigcup_{l=1}^k Im(K_l).$$

**Theorem 12.19** Let  $\Pi$  be a set of FCMI's on  $X_1, X_2, \dots, X_n$ . Then  $\Pi$  holds if and only if  $\mu^*(A) = 0$  for all  $A \in Im(\Pi)$ .