





$$A_5 \cup A_6 = A_1$$
 $A_7 \cup A_8 = A_2$ $\mathbb{P}[A_5] + \mathbb{P}[A_6] = \mathbb{P}[A_1] = 1$ $\mathbb{P}[A_7] + \mathbb{P}[A_8] = \mathbb{P}[A_2] = 1$

$$A_5 \cup A_6 \cup A_7 \cup A_8 = A_1 \cup A_2 = A_0 \qquad A_5 \cup A_6 \cup A_7 \cup A_8 = A_3 \cup A_4 = A_0$$

$$\mathbb{P}[A_5] + \mathbb{P}[A_6] + \mathbb{P}[A_7] + \mathbb{P}[A_8] = \mathbb{P}[A_1] + \mathbb{P}[A_2] = \mathbb{P}[A_0] = 1 \qquad \mathbb{P}[A_5] + \mathbb{P}[A_6] + \mathbb{P}[A_7] + \mathbb{P}[A_8] = \mathbb{P}[A_3] + \mathbb{P}[A_4] = \mathbb{P}[A_0]$$

$$\mathbb{P}[A_5] + \mathbb{P}[A_7] = \mathbb{P}[A_3] = 1$$
 $A_6 \cup A_8 = A_2$
 $\mathbb{P}[A_6] + \mathbb{P}[A_8] = \mathbb{P}[A_4] = 1$

 $A_5 \cup A_7 = A_3$

$$A_5 \cup A_6 \cup A_7 \cup A_8 = A_1 \cup A_2 = A_0 \qquad A_5 \cup A_6 \cup A_7 \cup A_8 = A_3 \cup A_4 = A_0$$

$$\mathbb{P}[A_5] + \mathbb{P}[A_6] + \mathbb{P}[A_7] + \mathbb{P}[A_8] = \mathbb{P}[A_1] + \mathbb{P}[A_2] = \mathbb{P}[A_0] = 1 \qquad \mathbb{P}[A_5] + \mathbb{P}[A_6] + \mathbb{P}[A_7] + \mathbb{P}[A_8] = \mathbb{P}[A_3] + \mathbb{P}[A_4] = \mathbb{P}[A_0] = 1$$