





$$A_5 \cup A_6 \cup A_7 \cup A_8 = A_1 \cup A_2 = A_0$$

$$A_5 \cup A_6 \cup A_7 \cup A_8 = A_3 \cup A_4 = A_0$$

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

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

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