$$1 - P_{evict|S_c}$$

$$S_c$$

$$P_{evict|S_c}\,(\,1 - P_{access|S_c}\,)$$

$$P_{warm}^{\oplus}(\,1 - P_{evict|S_c}\,)$$

$$1 - P_{evict|S_c}$$

$$P_{evict|S_c}\,P_{access|S_c}$$

$$P_{warm}^{\oplus}P_{evict|S_c}\,(\,1 - P_{access|S_c}\,)$$
$$+(\,1 - P_{warm}^{\oplus}\,)(\,1 - P_{S_{\bar{c},a}|S_{\bar{c},\bar{a}},nowarm}^{\oplus}\,)$$

$$S_{\bar{c},\bar{a}}$$

$$P_{evict|S_c}\,(\,1 - P_{access|S_c}\,)$$

$$S_{\bar{c},a}$$

$$P_{evict|S_c}\,P_{access|S_c}$$

$$P_{warm}^{\oplus}P_{evict|S_c}\,P_{access|S_c}+(\,1 - P_{warm}^{\oplus}\,)P_{S_{\bar{c},a}|S_{\bar{c},\bar{a}},nowarm}^{\oplus},$$
$$P_{S_{\bar{c},a}|S_{\bar{c},\bar{a}},nowarm}^{\oplus}=P_{evict|S_{\bar{c},a}}^{\oplus}P_{access|S_{\bar{c},a}}^{\oplus}+(\,1 - P_{evict|S_{\bar{c},\bar{a}}}^{\oplus}\,)P_{access|S_c}$$