

$$\begin{aligned}
 @R = 20pt @C = 35pt \cdot \cdot \bigcap_{k=1}^R A_k \mid \bigwedge_k a_{kd_k}[d_1, \dots, d_k] \leq D \} \cdot \cdot A_1 \cap A_2 \mid \{a_{i_1} \cap a_{i_2} \mid i, j \leq D\} @-[d] A_1 \cap A_N \mid \{a_{i_1} \cap a_{i_2} \mid i, j \leq D\}
 \end{aligned}$$