$$\bigcap_{k=1}^{N} A_{k} \mid \bigcap a_{k,d_{k}} \mid d_{k} \leq D$$

$$A_{1} \cap A_{2} \mid \{a_{i,1} \cap a_{2,j} \mid j \leq D\}$$

$$A_{1} \mid \{a_{i} \mid i \leq D\}$$

$$A_{1} \cap A_{N} \mid \{a_{i,1} \cap a_{N,j} \mid j \leq D\}$$

$$R^{n}$$