

User Wedge indicator

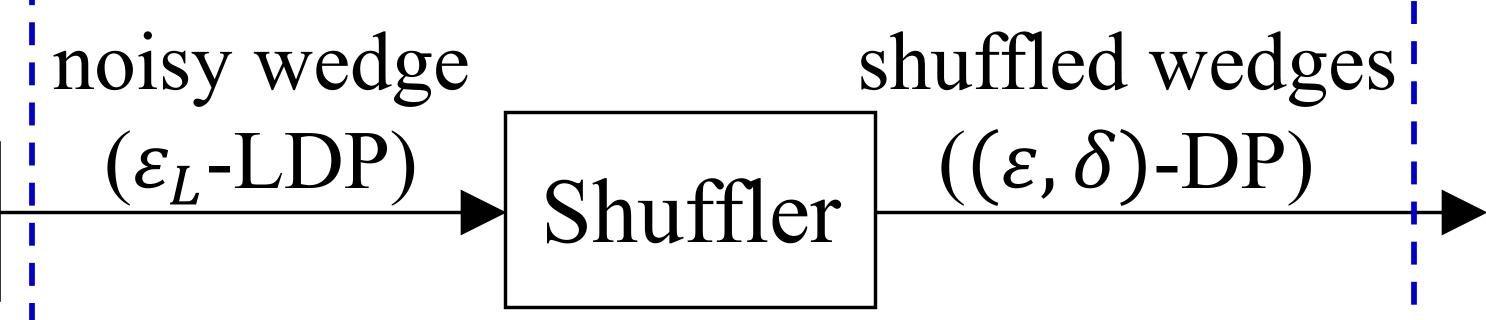
$$v_k \quad w_{i-k-j} \in \{0,1\} - \boxed{RR}$$

User Edge indicator

$$v_i \quad a_{i,j} \in \{0,1\}$$
 — RR

$$v_j \quad a_{j,i} \in \{0,1\} \longrightarrow \mathbb{R}$$





## Edge information (large noise)

noisy edge (ε-LDP)

noisy edge(ε-LDP)

Data collector