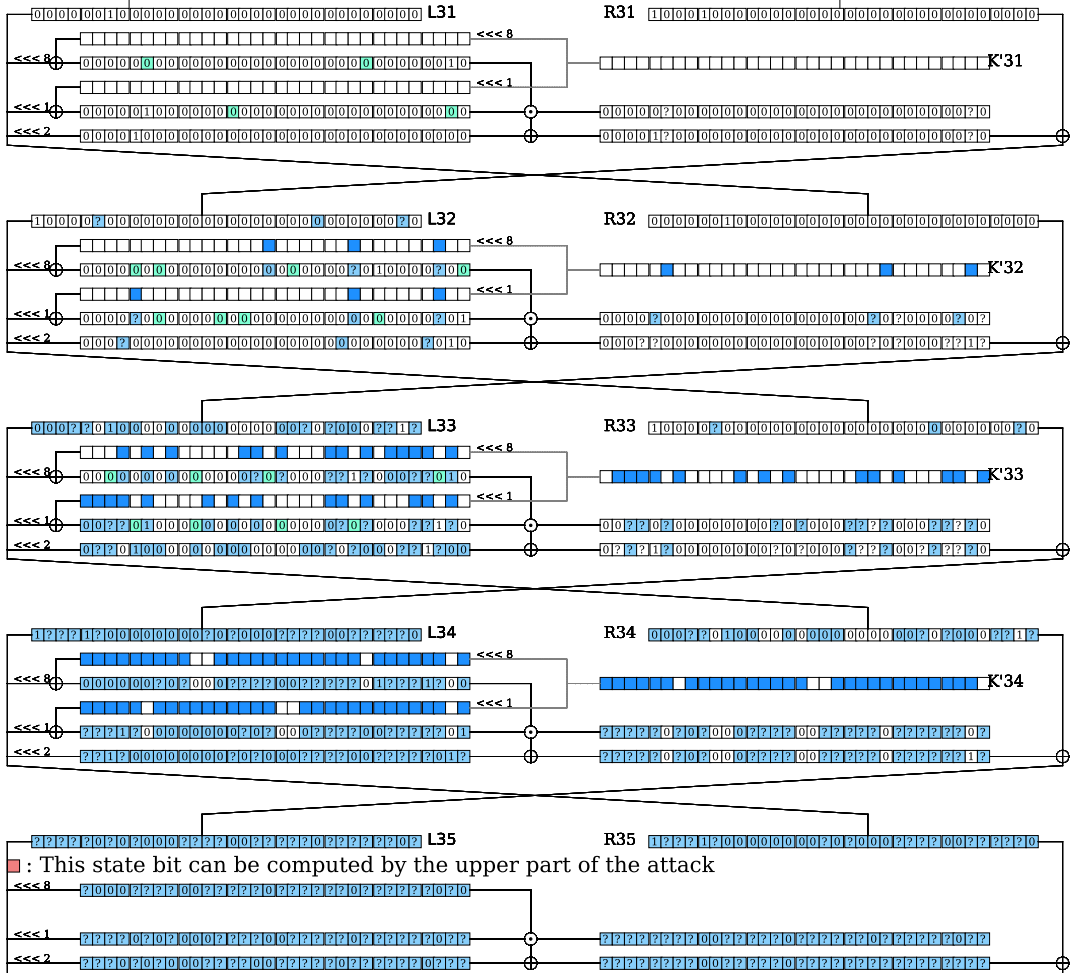


## 23-rounds differential distinguisher



■ : This key bit is guessed by the upper part of the attack

■ : This state bit is guessed by the upper part of the attack,  
it is used to sieve the candidates during the match

■ : This key bit is guessed by the lower part of the attack

■ : This state bit can be computed by the lower part of the attack

■ : This state bit is guessed by the lower part of the attack,  
it is used to sieve the candidates during the match

⊙ : The difference on this bit is 0

⊙ : The difference on this bit is 1

⊙ : The difference on this bit can be 0 or 1

⊙ : The difference on this bit is considered 0 by probabilist propagation

■ : The difference on this bit can be computed by the upper  
and lower part of the attack

■ : The value of this bit is fix