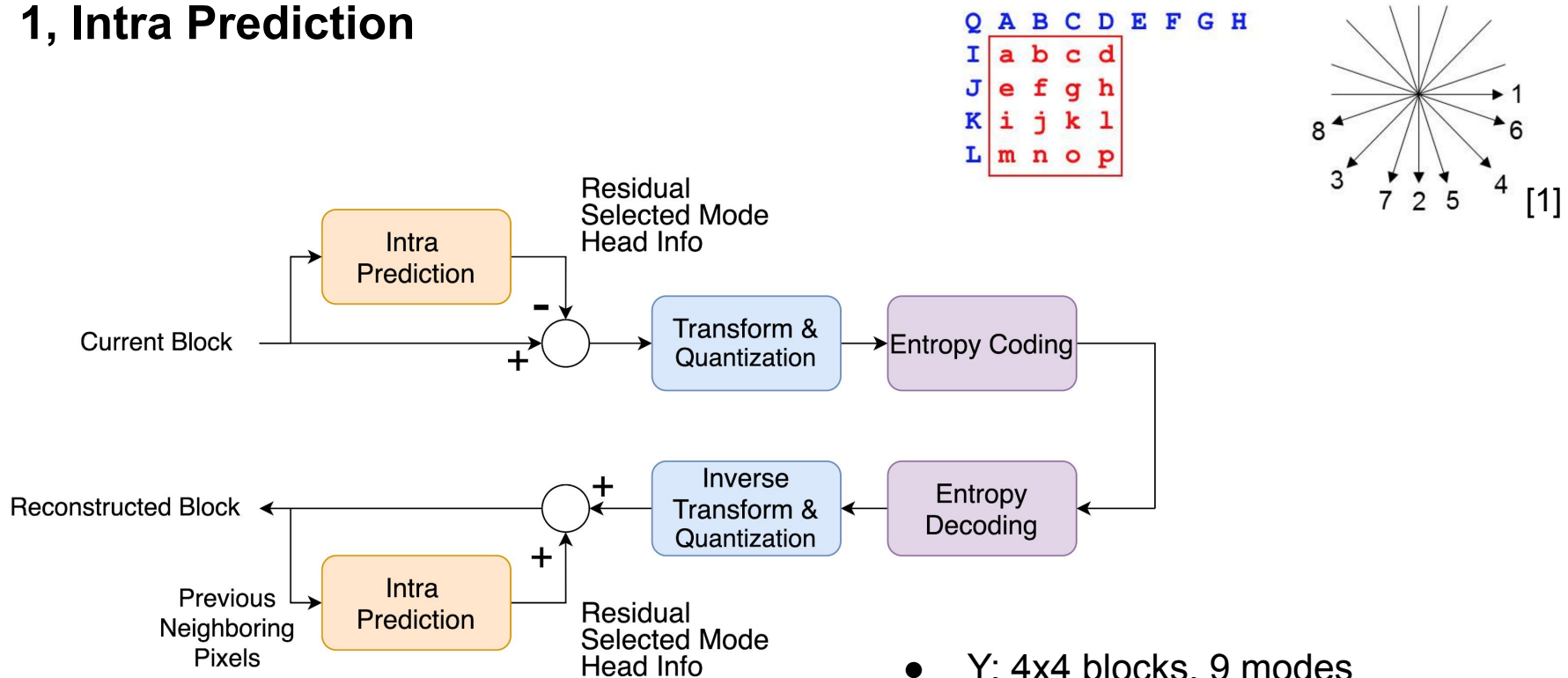


Concept and Implementation

1, Intra Prediction



- Y: 4x4 blocks, 9 modes
- Cb and Cr: 8x8 blocks, 4 modes

Concept and Implementation

2. Fractional-pel Motion Estimation

- Integer-search first, then fractional precision.
- Half-pel: bilinear interpolation
- Quarter-pel: further bilinear interpolation

3. Adaptive Post-deblocking Filter

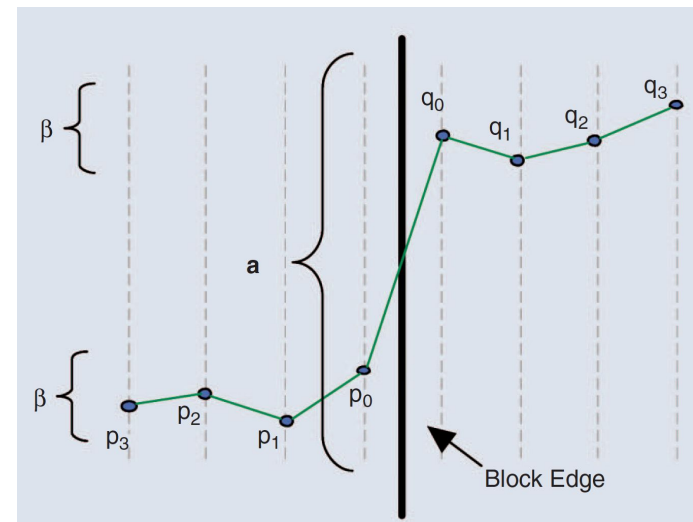
- choices of thresholds alpha and beta depend on the quantization level

if $|p_0 - q_0| < \alpha$, $|p_1 - p_0| < \beta$, $|q_1 - q_0| < \beta$

→ weak deblocking
filter p_0 and q_0

if additionally $|p_2 - p_0| < \beta$, $|q_2 - q_0| < \beta$

→ strong deblocking
also filter p_1, p_2, q_1, q_2



[2]

Optimization Results

