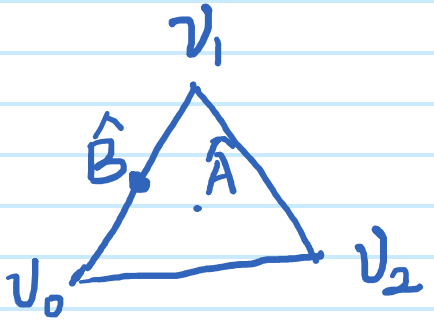
$\hat{A}, \hat{B}$ forms an edge



$B < A$, $\Rightarrow$ B is a face of A

$$\Rightarrow \operatorname{dist}(B, A) < \max_i \left(\operatorname{dist}(A, v_i) \right)$$

also $\operatorname{dist}(A, v_i) = \left| \frac{1}{k+1}(v_0 + \cdots + v_k) - v_i \right|$

$$= \left| \frac{1}{k+1}(v_0 - v_i) + \cdots + \frac{1}{k+1}(v_k - v_i) \right|$$

One of them is zero

$$\leq \frac{k}{k+1} \max_j (v_j - v_i)$$

$$\leq \frac{k}{k+1} \mu(A) \leq \frac{n}{n+1} \mu(K)$$