$\Lambda$ k-plane in $W$.

$$\dim(\Lambda \cap V_{n-k+i-a_i}) \geq i \iff \dim(*\Lambda \cap V^*_{k-i+a_i}) \geq a_i$$
$$\dim(*\Lambda'' \cap V^*_{n-(n-k)+a_i-i})$$

$$a_1 = \cdots = a_{m_1} > a_{m_1+1} = \cdots = a_{m_2} > a_{m_2+1} = \cdots = a_{m_3} > a_{m_3+1} = \cdots$$

$$= a_{m_4} > \cdots \quad a_{m_{l-1}} > a_{m_{l-1}+1} = \cdots = \underset{a_k}{\overset{\shortparallel}{a_{m_l}}}. \quad \text{i.e } m_l = k$$

$$\Rightarrow \sum a_i = m_1 \cdot a_{m_1} + (m_2 - m_1)\, a_{m_2} + (m_3 - m_2)\, a_{m_3} + \cdots + (m_l - m_{l-1})\, a_{m_l}.$$

Suppose $i < j$ and $a_i = a_j > a_{j+1}$

$$\dim(*\Lambda \cap V^*_{k-i+a_i}) \geq a_i$$
$$\dim(*\Lambda \cap V^*_{k-(i+1)+a_{i+1}}) \geq a_{i+1}.$$
$$\vdots$$
$$\dim(*\Lambda \cap V^*_{k-j+a_j}) \geq a_j$$

$\Rightarrow$ Since $V^*_{k-i+a_i} \supset V^*_{k-(i+1)+a_{i+1}} \supset \cdots \supset V^*_{k-j+a_j}$ ($\because$ $k-i+a_i > k-(i+1)+a_{i+1} > \cdots > k-j+a_j$),
$\Lambda$ must satisfy $\dim(*\Lambda \cap V^*_{k-j+a_j}) \geq a_j$.

$\Rightarrow$ $\dim(*\Lambda \cap V^*_{k-j+a_j}) = \dim(*\Lambda \cap V^*_{n-(n-k)+a_j-j}) \geq a_j$

$\Rightarrow$ $a^*_{a_j} = j$ is reasonable guess.

$\Rightarrow$ $a^*_{a_{m_i}} = m_i$ for all $i$

$\Rightarrow$ $a^*_{a_1} = \cdots = a^*_{a_{m_1}} = m_1 \Rightarrow \underset{m_1}{\overset{\shortparallel}{a^*_{a_1}}} \geq 1, \ \underset{m_1}{\overset{\shortparallel}{a^*_{a_2}}} \geq 2 \cdots$

$a^*_{a_{m_1+1}} = \cdots = a^*_{a_{m_2}} = m_2 \Rightarrow \underset{m_2}{\overset{\shortparallel}{a^*_{a_{m_1+1}}}} \geq m_1+1 \cdots$