

$$C_L(\mathcal{P}, \alpha \mathcal{P}_\infty) \quad \mathcal{P} = \mathcal{P}_1, \dots, \mathcal{P}_n$$

$$n=1 \quad Q \in L(\infty \mathcal{P}_\infty) [Y]$$

$$\bullet Q(y_i)(\mathcal{P}_i) = 0 \quad i=1 \dots n \quad (\text{mult } \nu)$$

$$\bullet Q = \sum Q_i \gamma_i \quad Q_i \in L((m-t) - i\alpha) \mathcal{P}_\infty$$

$$(Y - f)/Q$$

$$Q_0 \in L(\nu(m-t) \mathcal{P}_\infty)$$

$$Q_1 \in L((\nu(n-t) - \alpha) \mathcal{P}_\infty)$$

$$n_{\text{eq}} = m \binom{\nu+1}{2}$$

$$\nu(m-t) - g + 1$$

$$\nu(m-t) - \alpha - g + 1$$

$$\nu(n-t) - i\alpha - g + 1$$

$$1/\alpha$$

$$V_{\nu} = \frac{(\nu(n-t) - g + 1)^2}{2\alpha}$$

$$V$$

$$\frac{\nu(n-t) - g - 1}{\alpha}$$

$$V > n$$

$$\frac{(\nu(m-t) - g + 1)(\nu(n-t) - g + 1)}{2\alpha} > m$$

$$\frac{(n-t-g+1)^2}{2\alpha} > m$$

$$n-t-g+1 > \sqrt{2\alpha m}$$

$$t < m - \sqrt{2\alpha n} - g + 1$$

\downarrow
 $k-1$

$$\frac{(\Omega(n-t)-g+1)^2}{2\alpha} > m \binom{\Omega+1}{2} = \frac{n\Omega(\Omega+1)}{2}$$

$$\Omega(n-t)-g+1 > \sqrt{\alpha \Omega(\Omega+1)m}$$

$$n-t > \sqrt{\alpha \left(1 + \frac{1}{\Omega}\right) - n} + \frac{g}{\Omega}$$

$$t < m - \sqrt{\alpha \left(1 + \frac{1}{\Omega}\right)} - \frac{g}{\Omega}$$