$$\sum_{\sigma \le \beta} \binom{\beta}{\sigma} D^{\gamma+\sigma}_{\xi} D^{\alpha-(\gamma+\sigma)}_{u} + \sum_{\sigma \le \beta} \binom{\beta}{\sigma} D^{\sigma}_{\xi} D^{\alpha-\sigma}_{u}$$

$$\sum_{\gamma \le \beta \le \alpha} \binom{\alpha-\gamma}{\beta-\gamma} D^{\beta}_{\xi} D^{\alpha-\beta}_{u} + \sum_{\beta \le \alpha-\gamma} \binom{\alpha-\gamma}{\beta} D^{\beta}_{\xi} D^{\alpha-\beta}_{u}$$

$$0 \le \sigma \le \beta$$
$$\gamma \le \sigma+\gamma \le \kappa$$

$$\sum_{\gamma \le \beta \le \alpha-\gamma} + \sum_{\substack{\alpha-\gamma < \beta \le \alpha \\ \Downarrow \\ \beta = \alpha}} \quad + \sum_{\substack{0 \le \beta < \gamma \\ \downarrow \\ \beta = 0}} \quad + \sum_{\gamma \le \beta \le \alpha - \gamma}$$

$$\sum_{\gamma \le \beta \le \alpha} \binom{\beta}{\beta-\gamma} D^{\beta} D^{\alpha-\beta} + \sum_{\beta \le \beta} \binom{\beta}{\beta} D^{\beta} D^{\kappa-\beta}$$

$$0 \le \beta < \gamma \quad \beta = 0$$
$$\overbrace{0 \le \beta_1 < 1 \ e \ 0 \le \beta_2 < 0}$$

$$\underbrace{\sum_{\gamma \le \beta \le \beta} + \sum_{\beta < \beta \le \alpha}}_{\sum_{\gamma \le \beta \le \beta} \binom{\alpha}{\beta} D^{\beta} D^{\kappa-\beta}} \quad \underbrace{\sum_{0 \le \beta < \gamma} + \sum_{\gamma \le \beta \le \beta}}_{\to \beta = 0} \quad \sum_{\beta \le \beta} \binom{\kappa}{\beta} D^{\beta}_{\xi} D^{\alpha-\beta}_{u}$$

$$+ \left(\overset{''1}{\underset{0}{\cancel{\binom{\beta}{0}}}} D^{0}_{\xi} D^{\alpha}_{u} + \binom{\beta}{\beta} D^{\kappa}_{\xi} D^{0}_{u} \right) \quad + D^{\alpha}_{\xi} D^{0}_{u}$$

$$\sum_{\beta \le \beta} \binom{\alpha}{\beta} D^{\beta}_{\xi} D^{\alpha-\beta}_{u} - \binom{\kappa}{0} D^{0}_{\xi} D^{\alpha}_{u} \qquad \overset{''}{\underset{\beta \le \alpha}{\sum}}$$