

$$X+Y p = X p^\alpha Y p \Rightarrow \partial_p \mathfrak{F} = \partial_{p^\alpha} \mathfrak{F} \partial_{\alpha p} \mathfrak{F}$$

$$\overline{X+Y}^n = \sum_{0 \leq m \leq n} \binom{n}{m} X^m Y^{n-m} \Rightarrow \mathfrak{F} = \sum_{0 \leq m \leq n} \binom{n}{m} \mathfrak{F}_{n-m}$$