$$\begin{split} P_{122} & . 2. & \chi_{3}^{n+} + (1-x_{1})y_{1}^{1} + \chi_{3}^{n} = 0 \\ & \vdots \ y_{1} x_{1} = \chi^{n} \sum_{n=0}^{\infty} a_{n} \chi^{n}, \quad y_{1}^{n} = \sum_{n=0}^{\infty} a_{n} (n+p)(n+p-1) \chi^{n+p-2} \quad y_{1}^{n} = \sum_{n=0}^{\infty} a_{n} (n+p) \chi^{n+p-1} \\ & \chi_{3}^{n} = \sum_{n=0}^{\infty} a_{n} (n+p)(n+p-1) \chi^{n+p-1}, \quad (1-x_{1})y_{1}^{n} = \sum_{n=0}^{\infty} a_{n} (n+p) \chi^{n+p-1} \\ & \chi_{3}^{n+} + (1-x_{1})y_{1}^{1} + \chi_{3}^{n} = \sum_{n=0}^{\infty} a_{n} \left[ (n+p)(n+p-1) + (n+p) \right] \chi^{n+p-1} \\ & \chi_{3}^{n+p-1} + \chi_{3}^{n} = \sum_{n=0}^{\infty} a_{n} \left[ (n+p)(n+p-1) + (n+p) \right] \chi^{n+p-1} \\ & \chi_{3}^{n+p-1} + \chi_{3}^{n} = \left[ a_{n} (n+p) - \lambda_{n} \right] \chi^{n+p-1} \\ & \chi_{3}^{n} = 0, \quad a_{n} = \frac{n+p-(\lambda+1)}{(n+p)^{n}} a_{n-1} \\ & \chi_{3}^{n} = 0, \quad a_{n} = \frac{n+p-(\lambda+1)}{(n+p)^{n}} a_{n-1} \\ & \chi_{3}^{n} = 0, \quad a_{n} = \frac{n-(\lambda+1)}{(n+p)^{n}} a_{n-1} \\ & \chi_{3}^{n} = \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} a_{n-1} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} a_{n-1} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} a_{n-1} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi_{3}^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)(\lambda-2) \cdots (\lambda-n+1)}{(n+p)^{n}} \chi^{n} \\ & \chi^{n} = 1 + \sum_{n=0}^{\infty} \frac{(-1)^{n} \chi(\lambda-1)($$