

$$y_i \left( \frac{\partial}{\partial y_i} \right)^2 + \left( \nu + a(r-1)/2 - y_i \right) \frac{\partial}{\partial y_i} + \sum_{j < k} \frac{a}{y_j - y_k} \left( y_j \frac{\partial}{\partial y_j} - y_k \frac{\partial}{\partial y_k} \right)$$