$$F(y) = \sum_{n\geq 0} \frac{y^n}{n!} P_n(L_1, L_2, \cdots, L_n, \cdots) \quad (1)$$

$$\sum_d mult(d) = B(n)^2 \quad (2)$$

$$d\otimes 1 + d_1\otimes(d_2\cup d_3) + d_2\otimes(d_1\cup d_3) + d_3\otimes(d_1\cup d_2) + \text{flips of those} \quad (3)$$

$$B_F(n,y) = \int_0^{+\infty} x^n W_F(x,y)dx \quad (4)$$

$$B_G(n,y) = \int_0^{+\infty} x^n W_G(x,y)dx \quad (5)$$

$$W_{FG}(x,y) = \int_0^{+\infty} W_F(x,z)W_G(z,y)dz \quad (6)$$