

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

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

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

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

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

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