Cycle Index Series

Definition

Let, F be a Combinatorial Species $Z_F(x_i)_{i \leq n, n \in \mathbb{N}} \coloneqq \sum_{k \in \mathbb{N}} \frac{1}{n!} \sum_{\sigma \in S_n} \left| F\left[[n]\right]^{F[\sigma]} \right|$