- Initial p_{cp} assignment:

$$\begin{aligned} p_{cp} &= \frac{a_b}{\sum_{i=1}^{12} a_i \exp\left(-\frac{\chi_i^2 - \chi_b^2}{w_e(\chi_i^2 + \chi_b^2)}\right)}, \text{ where} \\ w_e(y) &= \exp(b_e + c_e y + d_e y^2) \end{aligned}$$

- Only the best neutrino solution is considered for every jet permutation.
- a_i, b_e, c_e, and d_e are sets of constants to be fitted. Each MC event is assigned probability either p_{cp} or $1 - p_{cp}$ using HEPG parton matching. Then the likelihood of the whole MC sample is maximized.
- Index b (“best”) belongs to the jet permutation with lowest χ^2.
- Index e refers to the error type assigned to the jet permutation with index b in case permutation with index i is the correct one. Assume that “diffusion constants” depend only on the error type and not permutation number.