Post talk comments

Comments

- Generally seemed positive.
- Main comments from Jake:
 - Consider dividing templates into energies too.
 - Some magic about the energy slice which might skip unfolding.
 - Potentially some confusion about MC/data discrepancies, still communicating.
- Started looking through tech note, still trying to understand the fit minimisation
- Planning to chat with Jake soon

PFO count variation - comparison

 Plots compare all MC events (not split by true process) vs. data events.



Dennis Lindebaum | Fit performance of GNN scores

Particle content

- MC vs. data discrepancy could be caused by mismodelling of the species expected from nuclear events.
- Use a simple BDT (same BDT used for PID in the full network) to estimate proportions of particles in MC vs. data.



Reweighting events



Reweighting events



After weighting

If the re-weighting accounts to the MC/data discrepancy, the MC/reweighted difference should match the MC/data difference.

0.8

0.8

1.0

1.0

12

10.

2.

12.

10 -

8-

6-

2 0.0

PFOs in event

0.0

0.2

0.2

0.4

0.4

0.6

0.6

Abs. score

Pion score

PFOs in event

1.0-

0.8-

0.6-

0.4 -0.2 -

12

10-

8-

6-

4 -

0.0

0.2

0.4

CEx. score

0.6

0.8

1.0

PFOs in event

0.02

0.01

0.00

0.02

Post-weighting excess 0.00

Post-weighting exce

