



Update on Kinematic Fits

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Susy Group Meeting - Hamburg - 14th July 09



Validation of GA - New implementation

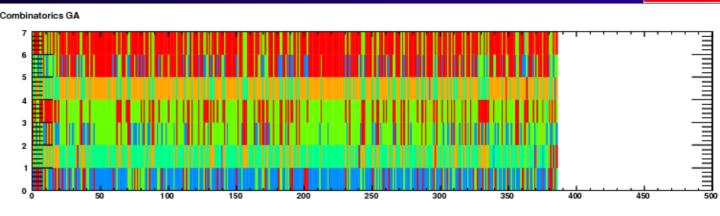


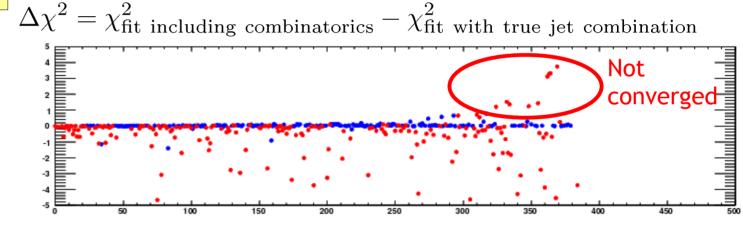
New implementation: up to $N_{\rm best}$ individuals survive of up to $N_{\rm same}$ jet combination (breeding in sub populations) + more children per coupling (~6 min/event)

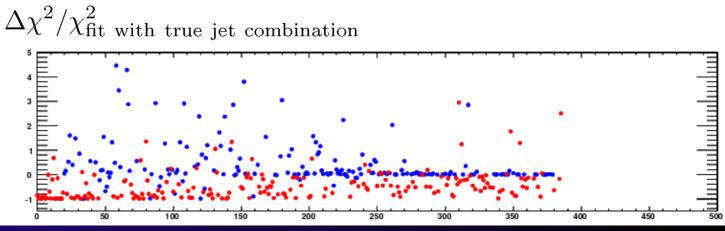
- best == right
- best != right

Best is right for 181 of 386 events

Positive values indicate that combi-fit has larger χ^2 than true-fit









Validation of GA - Newest implementation



Newest implementation: up to N_{best} individuals survive of up to N_{t} jet

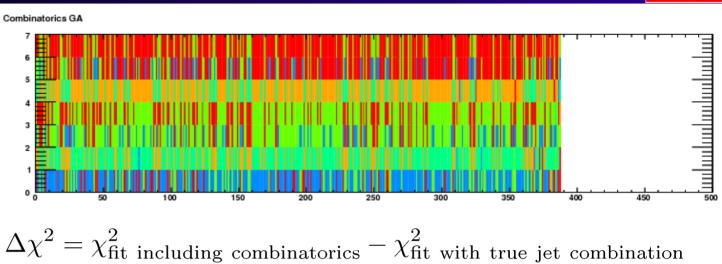
survive of up to $N_{\text{same}}(t)$ jet combination:

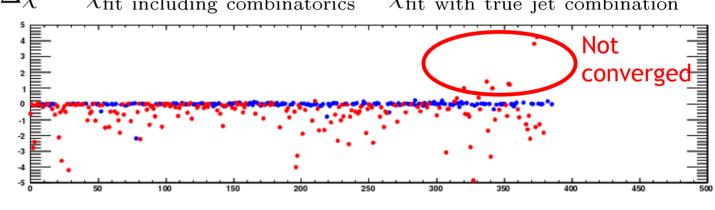
- at the beginning the 20 best combinations are kept
- at the end only the 5 best
 (λ ~ 50 generations)
- + time dependent mutation probability:
- at beginning more combinatorics mutation
- later more momentum variation

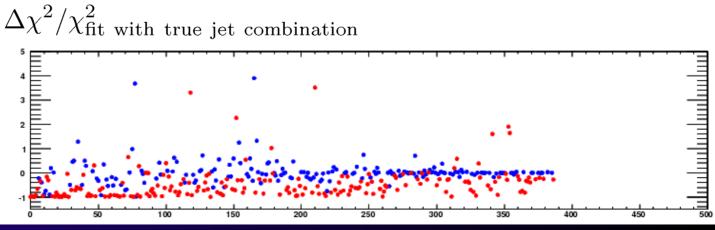
(~2 min/event)

Best is right for 181 of 388 events

Positive values indicate that combi-fit has larger χ^2 than true-fit









A Few More Plots



