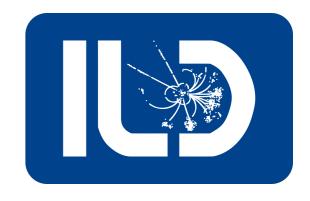
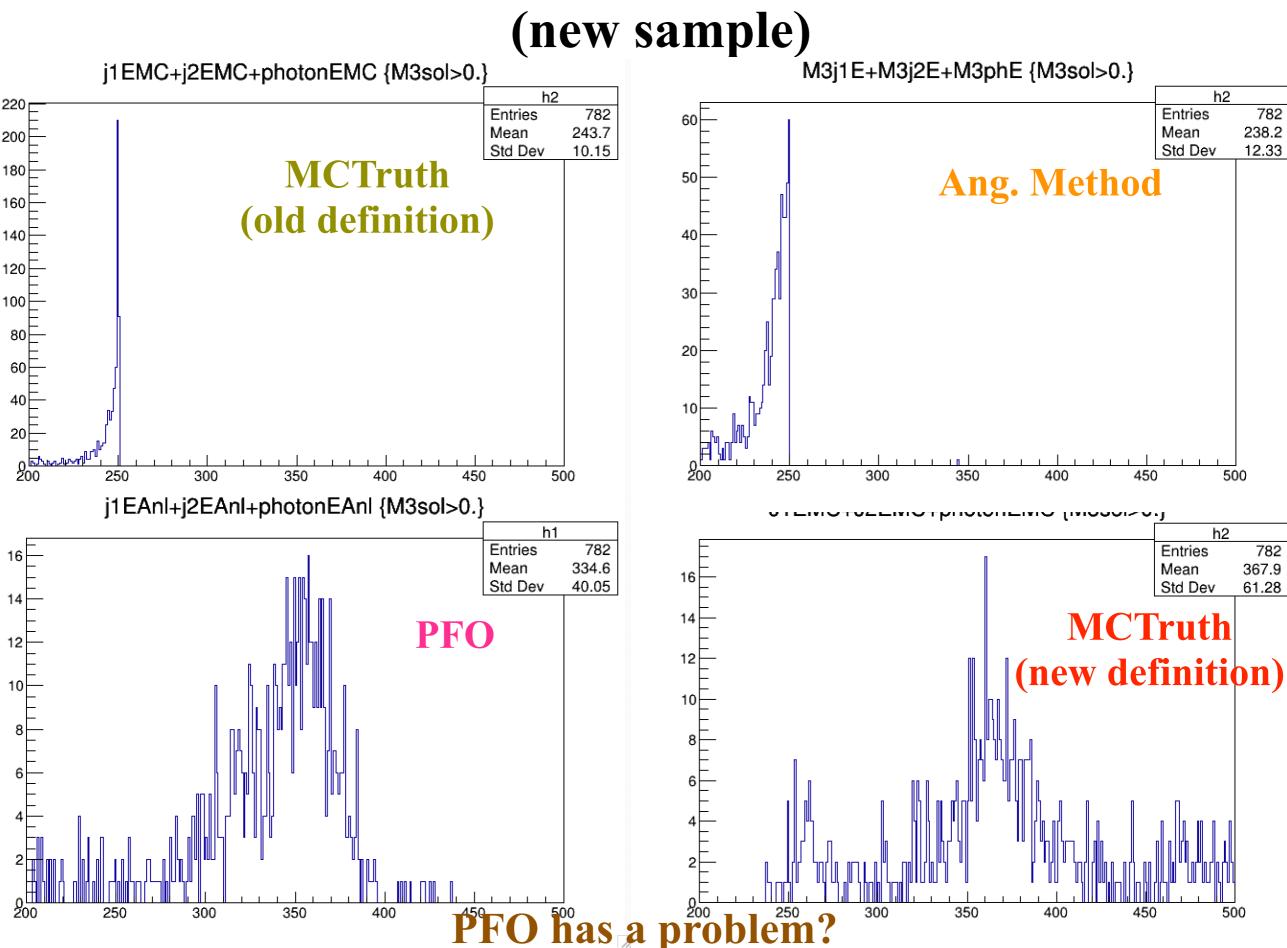
Jet Energy Scale Calibration using $e^+e^- \rightarrow \gamma Z$ process at the ILC

Takahiro Mizuno sokendai



Total (J1+J2+photon) Energy



2

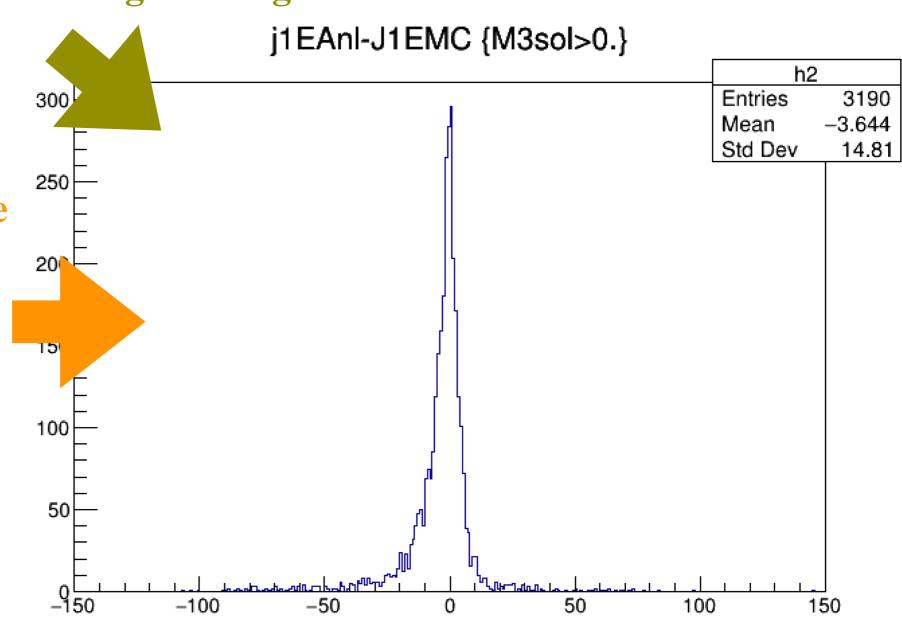
PFO overestimation and MC overestimation

.xml file had a problem.
Input for the MyJetPFOsCollectionProcessor should contain only jet particles. However, signal photons are included.

-> as for the JPFO - JMC,

there were large tail in the negative region.

- -> MC is overestimated
- Source code is modified so as to delete the double counting by removing those which have a parent which is also in the list.
- MC overlay is also removed.



MC overestimation

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Input for the MyJetPFOsCollectionProcessor should contain only jet particles. However, signal photons are included.

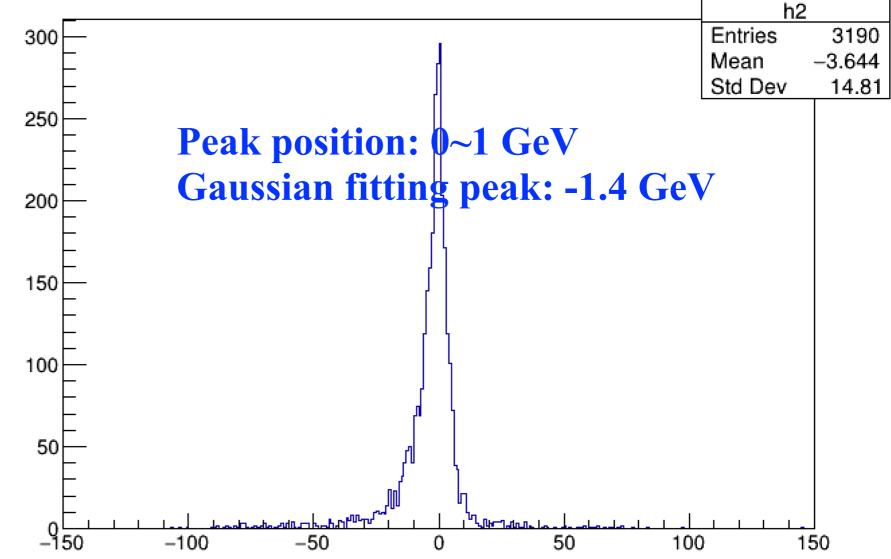
-> as for the JPFO - JMC,

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j1EAnl-J1EMC {M3sol>0.}

- Source code is modified so as to delete the double counting by removing those which have a parent which is also in the list.
- MC overlay is also removed.



MC overestimation

5

Peak position: 0~1 GeV Gaussian fitting peak: -1.4 GeV

To ameliorate the situation, now trying to compare two jets and see whether there are same particles in both jets and the parents of them are counted twice.

