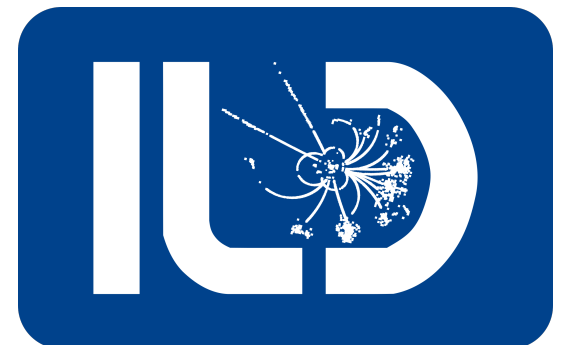


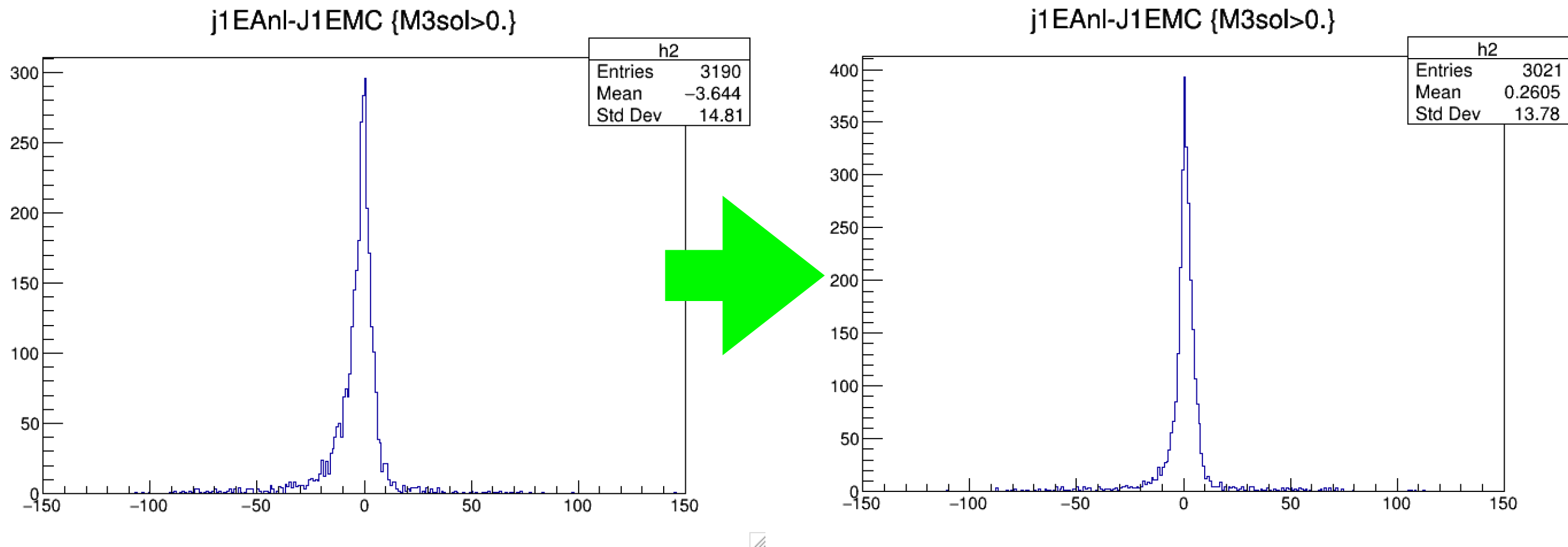
# Jet Energy Scale Calibration using $e^+e^- \rightarrow \gamma Z$ process at the ILC

**Takahiro Mizuno**  
SOKENDAI



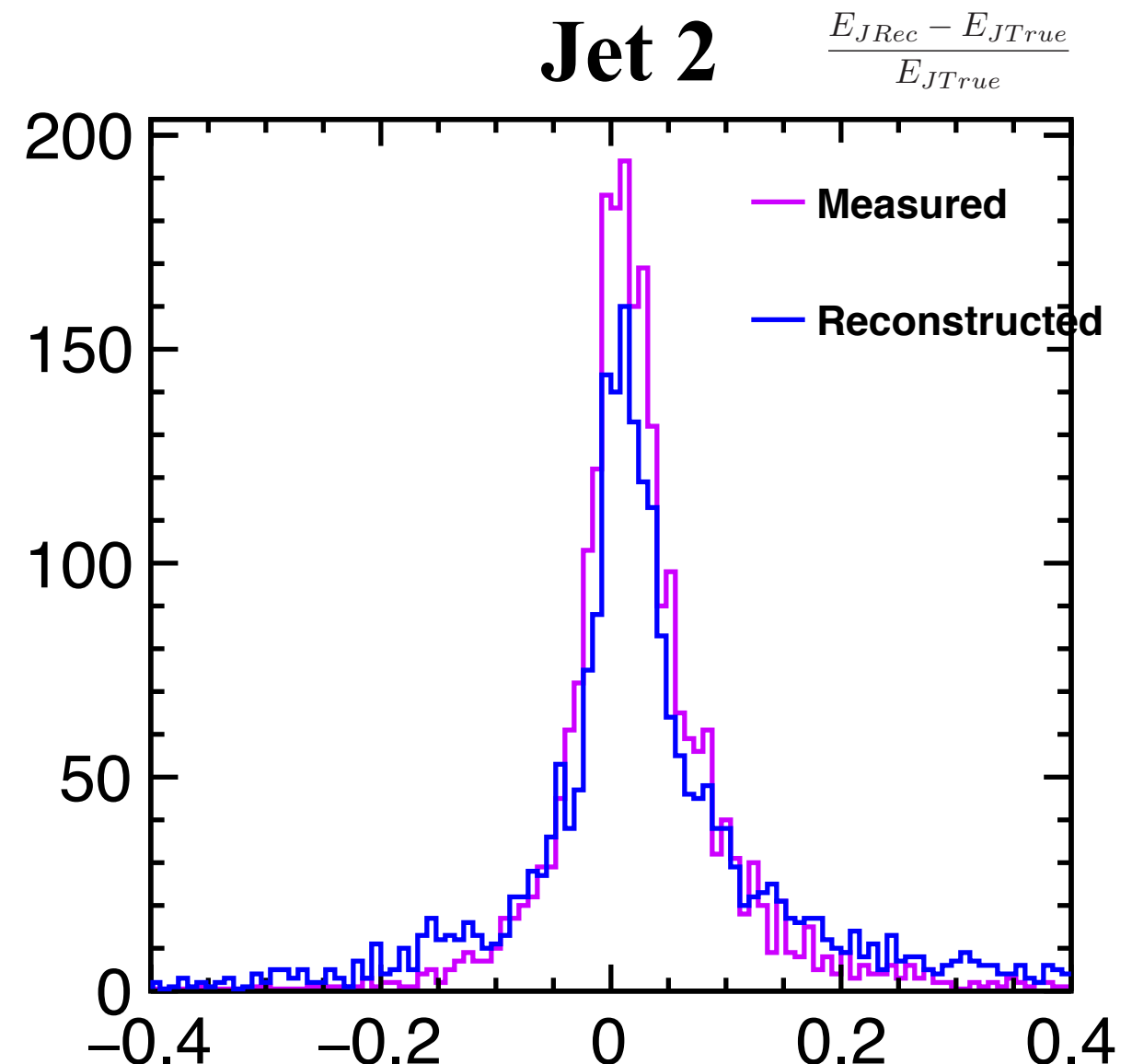
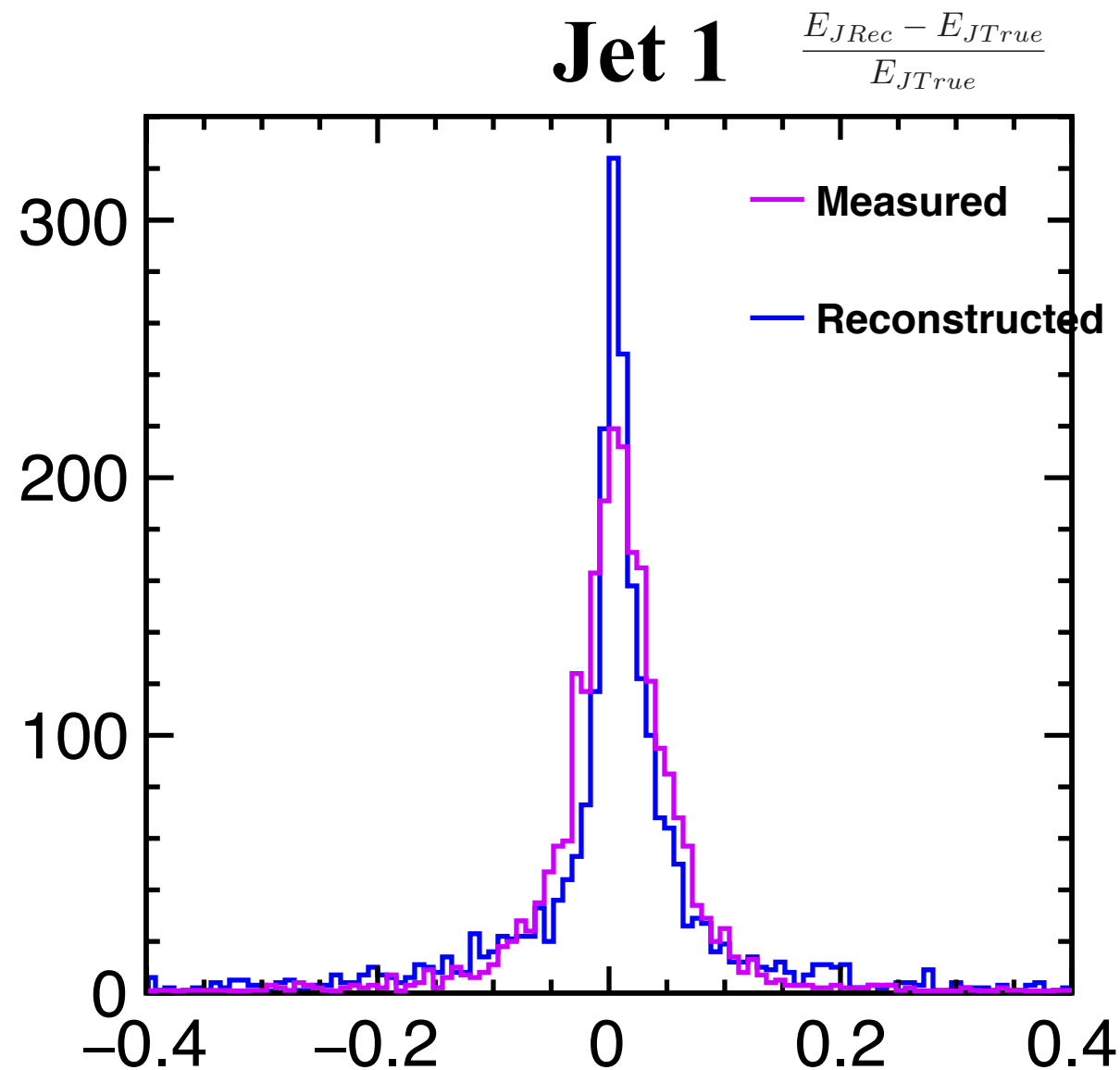
# MC overestimation

Finally, rootfiles for the JES calibration were generated after modifying MC overestimation. 2 jets are compared and checked whether there are same particles in both jets and the parents of them are counted twice.



# Analysis samples

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- Below plots show the relative difference of jet energy in PFO (=measured) and Ang. Method (=reconstructed).



# Analysis samples

- **Finally, rootfiles for the JES calibration were generated after modifying MC overestimation. 2 jets are compared and checked whether there are same particles in both jets and the parents of them are counted twice.**
- **Plots show the relative difference of jet energy in PFO (=measured) and Ang. Method (=reconstructed).**
- **Now trying to increase statistics. I'm running kekcc for more than 40 hours, the jobs doesn't finish. Particular 11 jobs are always running (not pending) and never finish. It is better to kill those jobs???**
- **As for the physics analysis, I think there is no need to use “PFO-linked” MCTruth but “absolute” MCTruth.**