# Zbb update

InvMass with JLIP
Getting Efficiencies
Detailed Analysis Schedule

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Higgs Subgroup Meeting
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# Getting JLIP running

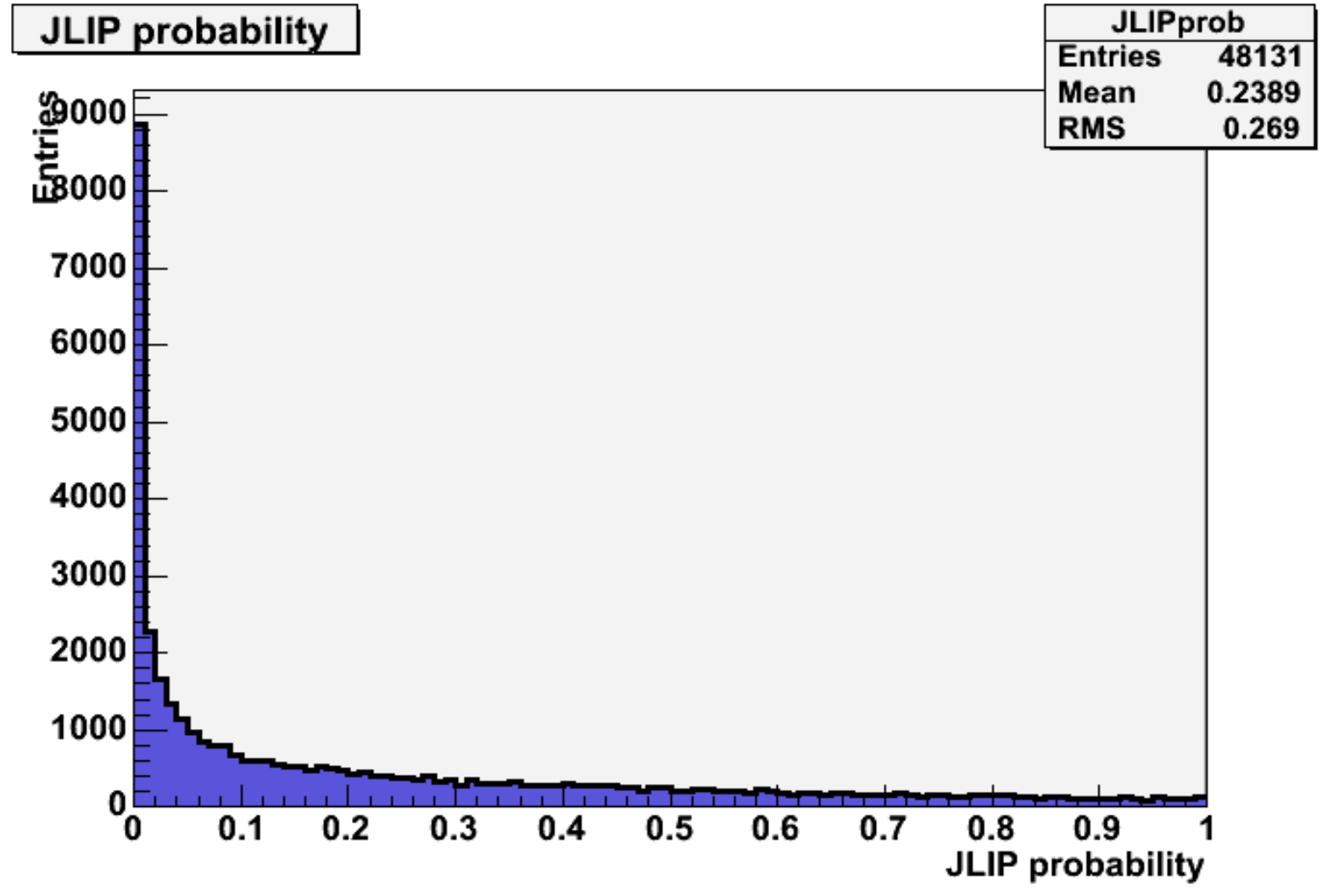
- 2MU, run tagger on 2 jet events only
- Watch out: #JCCB != #corrJCCB in tmb_tree!
- JLIP cert done on corrJCCB, analysis on corr_muJCCB, predicted eff/mistag is wrong (but unknown for low jet Et anyway)
- Using d0root_example approach – works (more or less – integration with tmb_tree missing).

# InvMass with JLIP

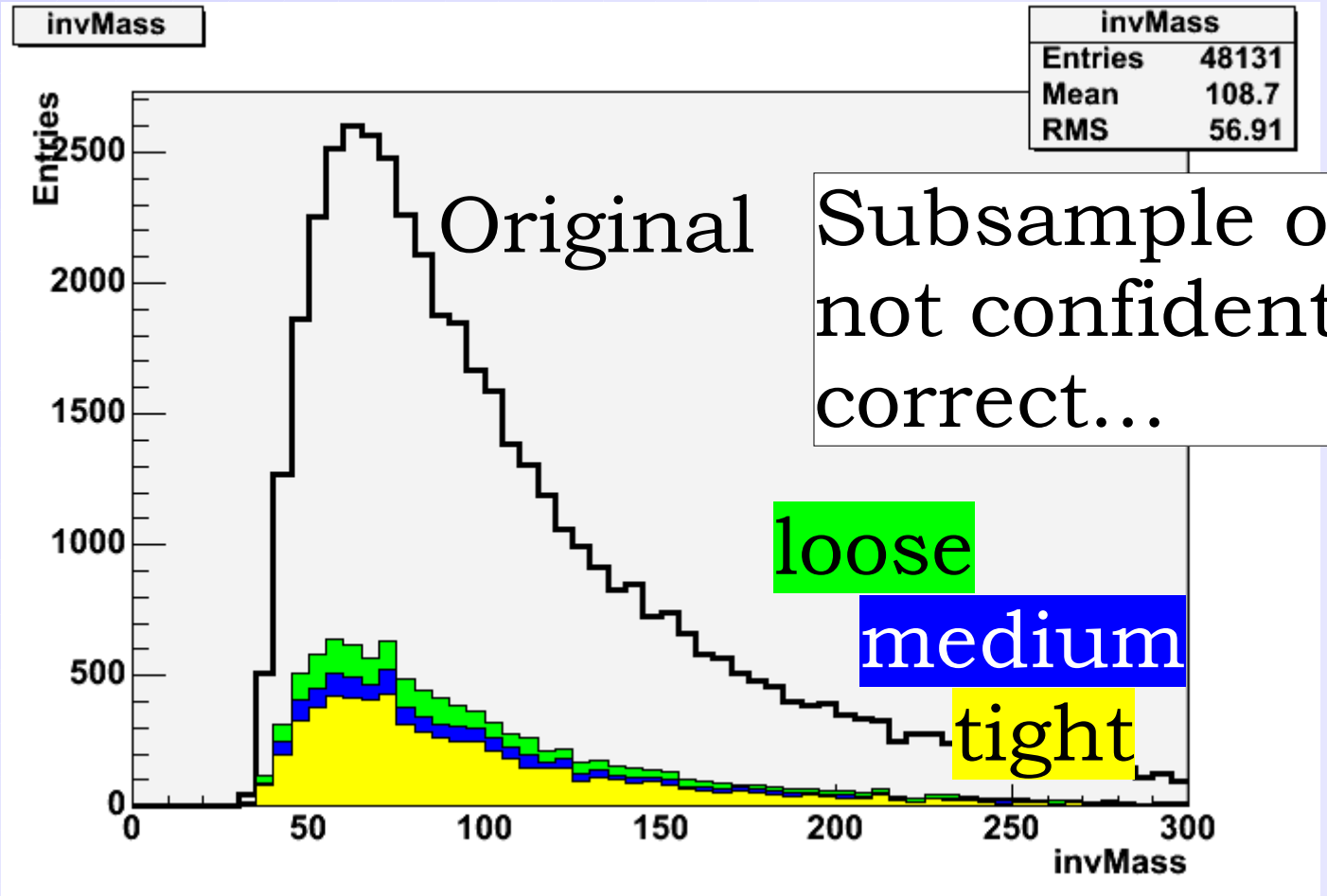
- 2MU sample, 2 back-to-back (dPhi>2.8) corr_muJCCB, for <u>each</u> jet:
  - |Eta|<2.5, Et>10., mu within dR<.5
- Single tagged
- Approx efficiencies for JLIP cuts:
  - Tight: 60%
  - Medium: 75%
  - Loose: 80%
- Doesn't shift invMass turn-on too much

# InvMass with JLIP

## JLIP significance for jet being light



# InvMass with JLIP




Subsample only & not confident it's correct...

# Getting Efficiencies

- Currently looking for dominant triggers
- Presumably di-mu triggers, no jets
- Get trigger eff from EM sample

Need also:

- Muon reco eff, B group?
- Jet reco eff Jyothsna?
- JLIP eff Daniel Bloch/self

for **<u>low Et</u>** ranges!

# Detailed Analysis Plan

Daniel wants this, so here it goes...

Analysis (all dates are deadlines):

- 2004-03-31: trigger efficiencies
- 2004-04-20: reco, tagger efficiencies
- 2004-05-15: event selection eff
- 2004-05-31: Z peak ? xsection : excl limit
- 2004-06-31: optimize cuts, binning
- 2004-07-31: error analysis

# Detailed Analysis Plan

Thesis:

- 2004-03-31: theory
- 2004-04-31: detector, trigger
- 2004-05-31: data sample, event selection
- 2004-06-31: efficiencies (trigger, event sel, reco, tagging)
- 2004-08-31: peak extraction & cross section / exclusion limit
- 2004-09-31: first draft