



Weekly

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8 Aug, 2016

Introduction

❖ All signal samples are done;

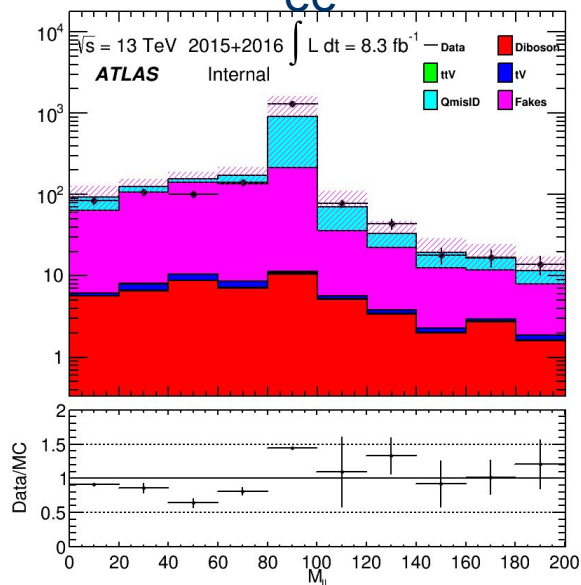
- asking HIGG8D1 derivations for res;

❖ non-res search:

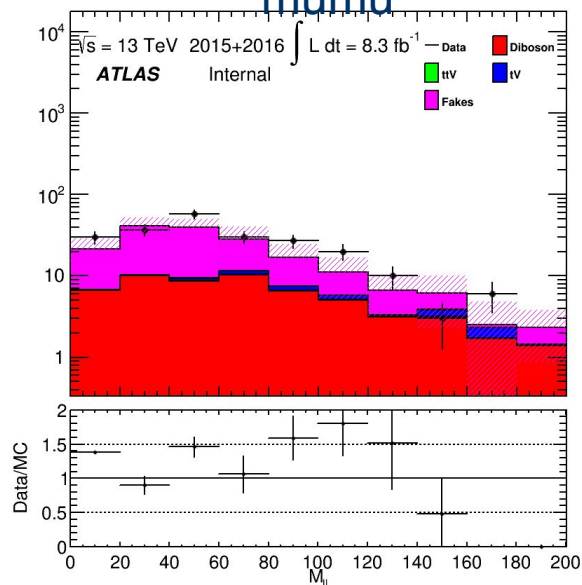
- CR: ==2 jets, 2 SS tight leptons;
- hard to find discriminant vars(see next slides);

CR: 2 jets, 2 SS tight leptons

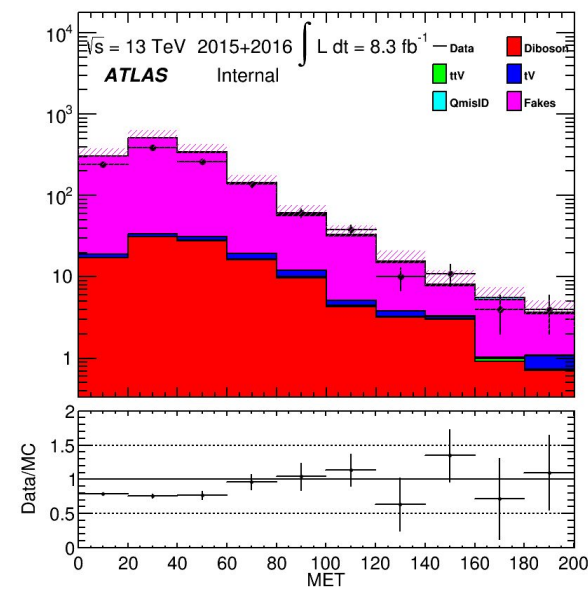
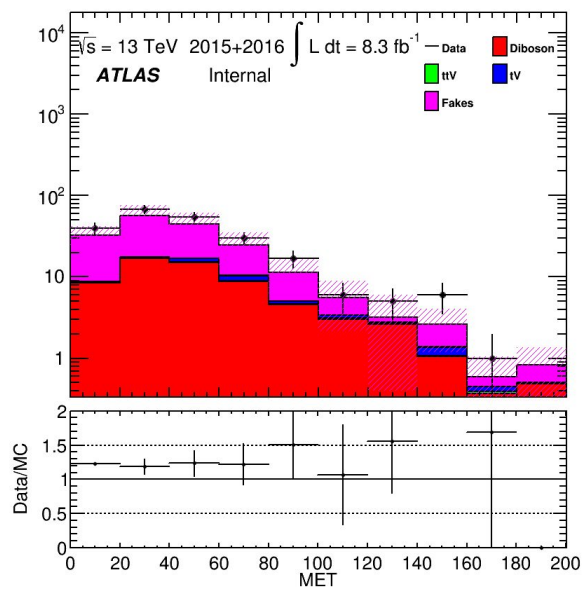
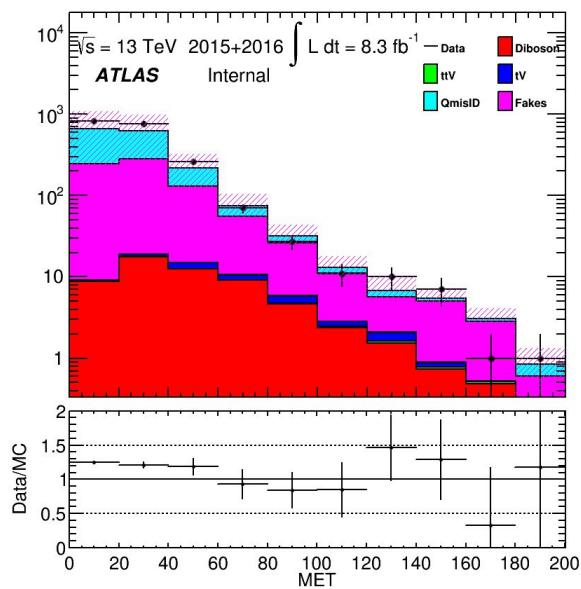
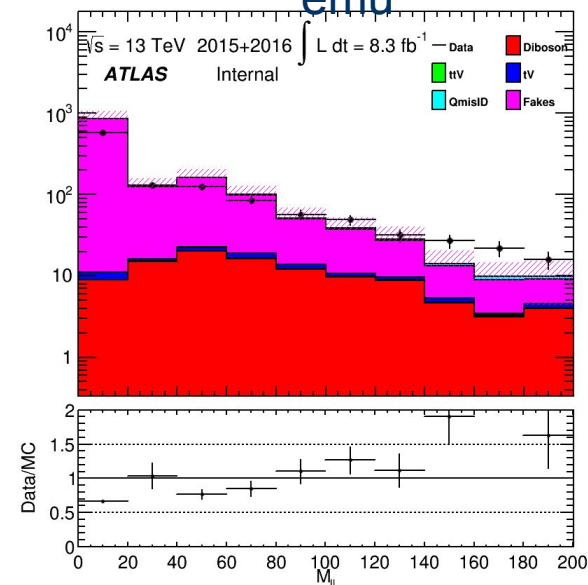
ee



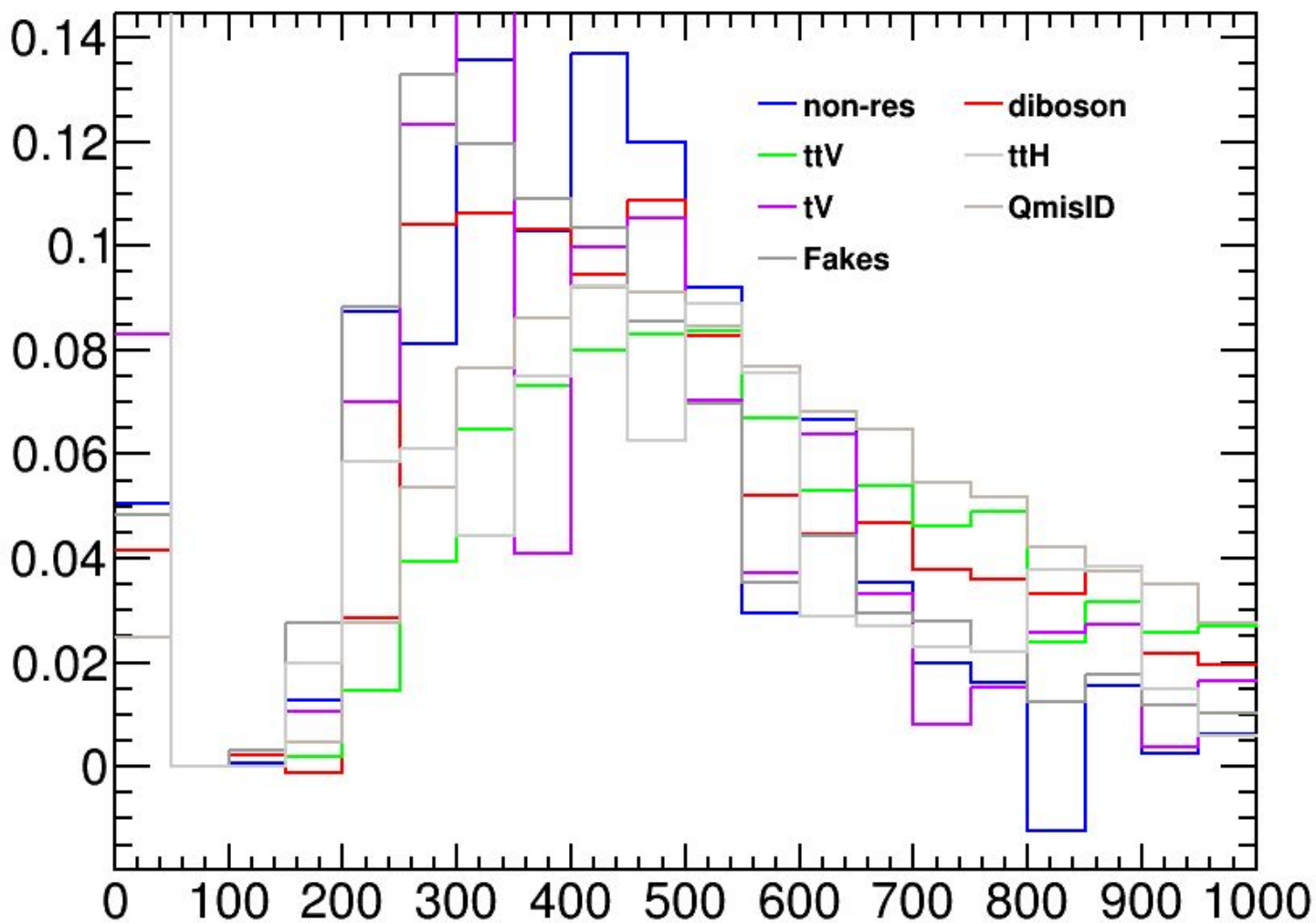
mumu



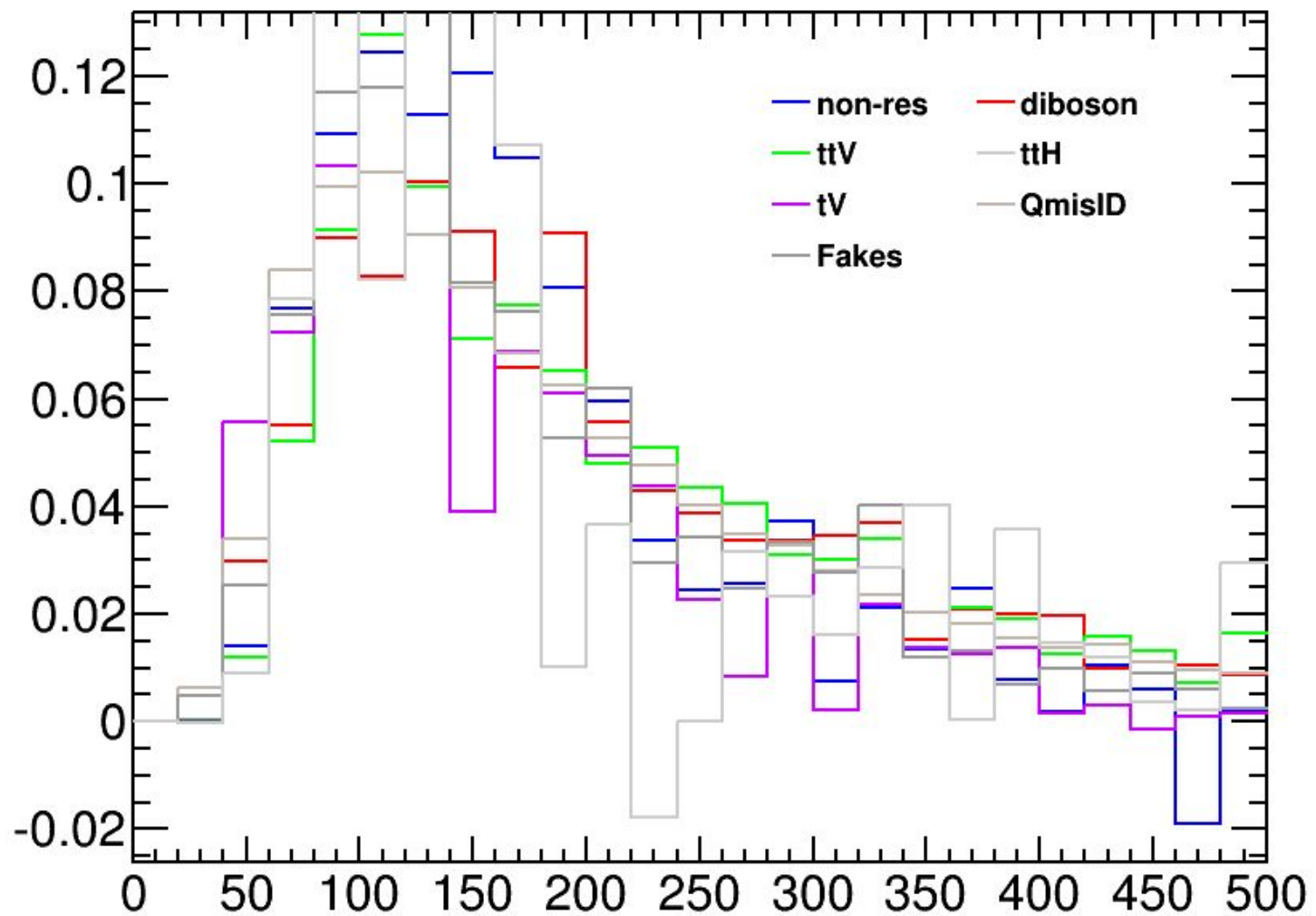
emu



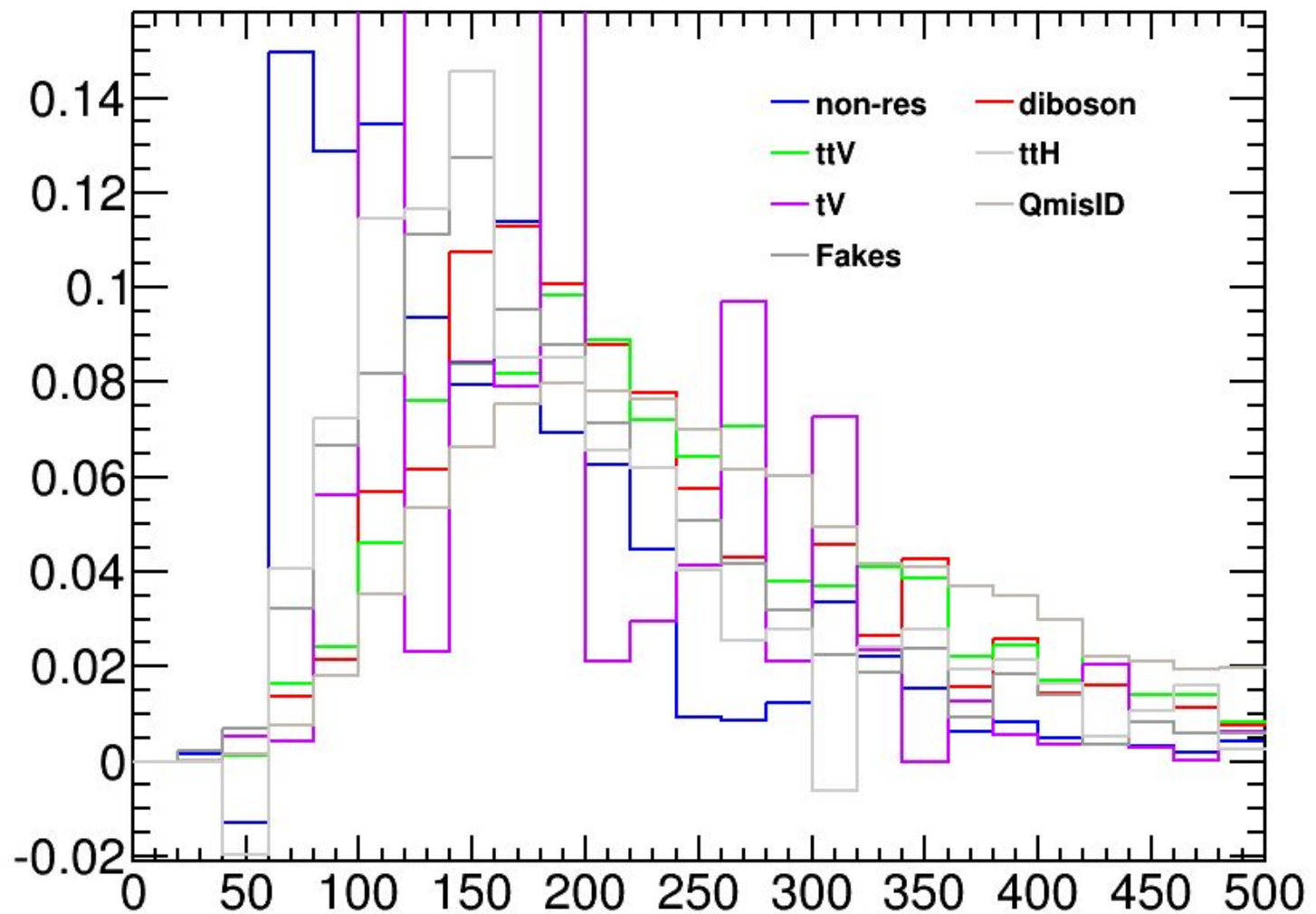
$m_{l\bar{l}jj}$



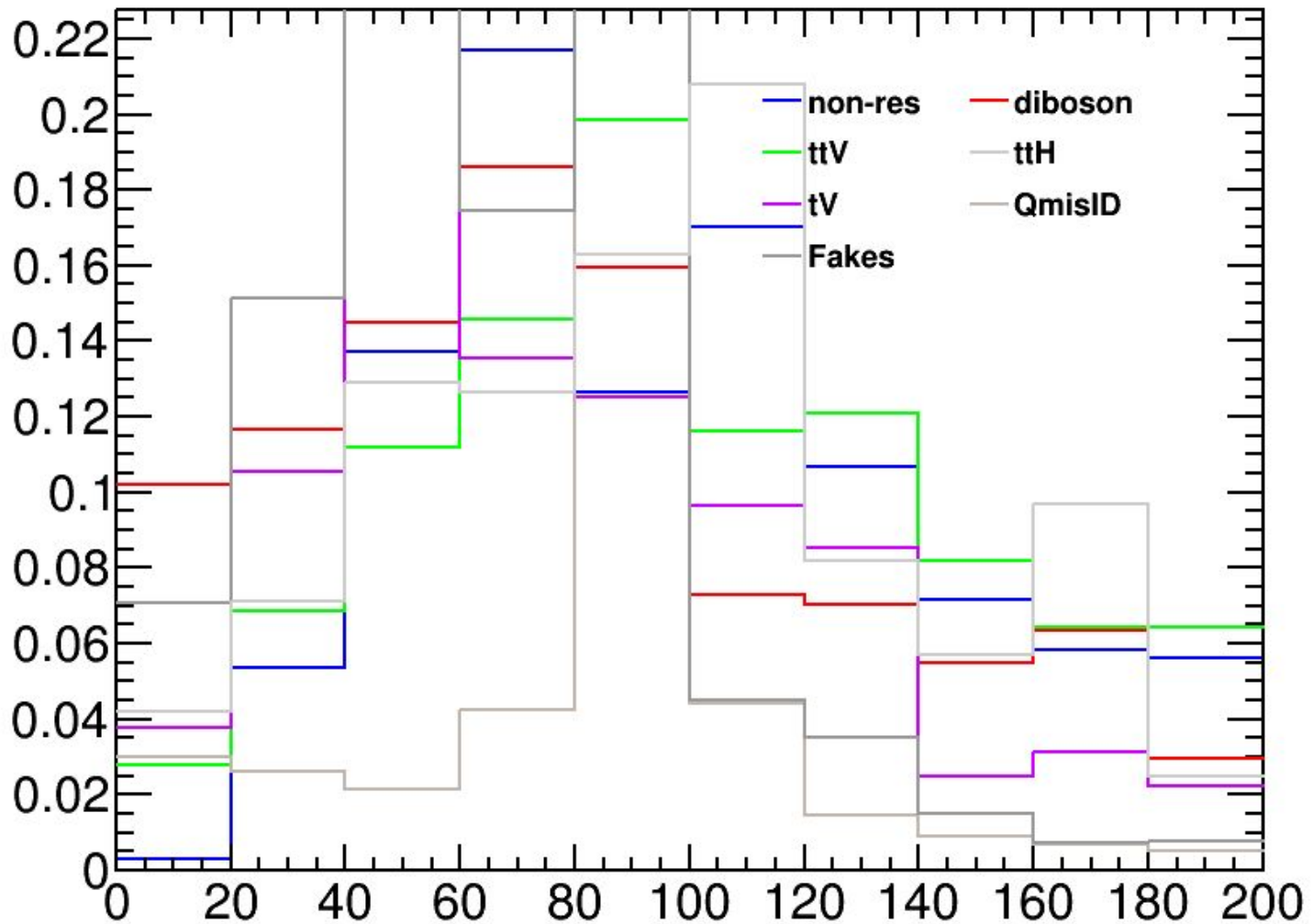
m_jj_w



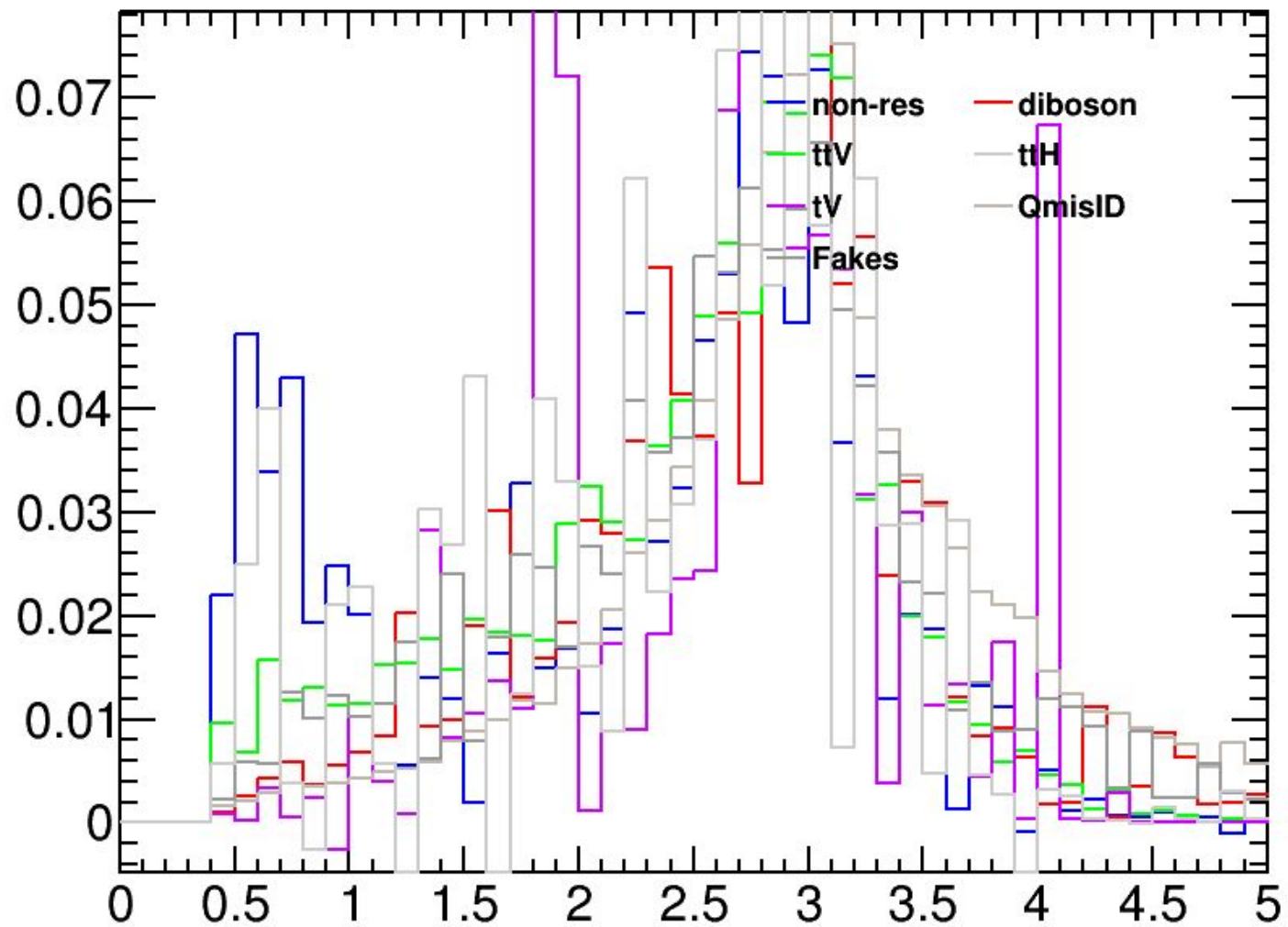
m_l1jj



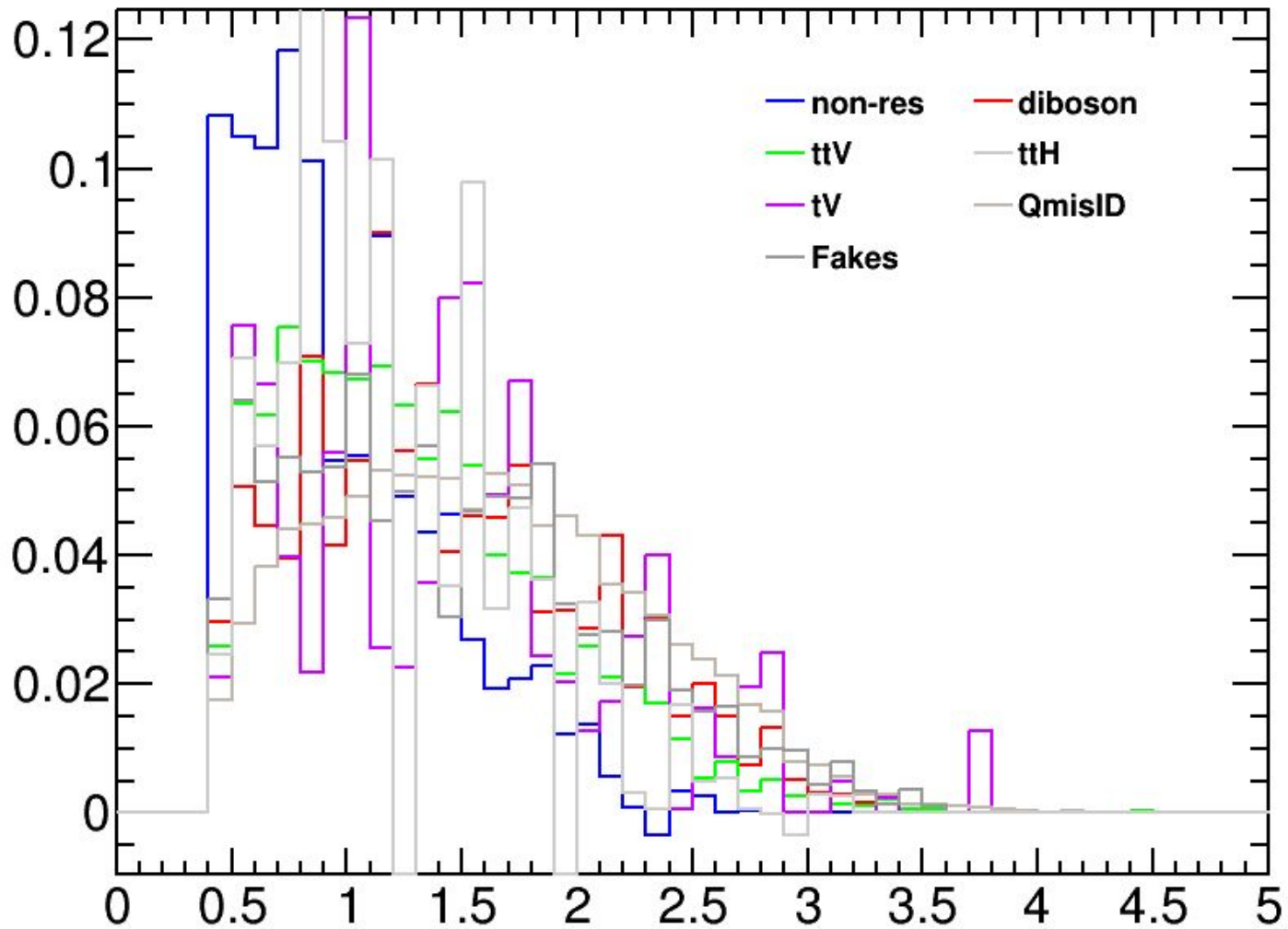
m_ll



mindR_l1j



mindR_l2j



- ❖ **cut-based and MVA studies are completed;**
 - finally decided to use MVA results;
- ❖ **Updated simulation part in paper;**
 - need someone put theory and simulation part together;

- ❖ **Supervisor already agreed to qualify me, final sign off before 10th Aug.**
 - but would like continue working in tracking group with some OTP;
 - to contribute some in ECFA note.

Summary & To do list

- ❖ **4W bkg estimations are almost complete, sys needed;**
- ❖ **4W pheno simulation final results given;**
 - other issues will be modified after theory and simulation are put together;
- **Focus on 4w ATLAS analysis;**
- **spend some time(1 day/week) contributing in tracking group.**

Back up