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To-Do List

- long-term
 - ◆ gathering
 - ◆ large H_T search
 - ◆ investigating Z+1.7 TeV dijet mass
- tcmet
 - ◆ **muon studes**
 - ◇ **finish up study of dpt/pt >1 muons (include nlayers, nhits, nlosthits)**
 - ◇ **use nlayers cut for bad muon rejection, include nlayers, dpt, dpt/pt in tcmet printout**
 - ◇ **slava's tcmet/pfmet study (put genmet in)**
 - ◇ **higher tail in zmm due to new RF: check if muon is also corrected as a pion by looking for tracks pt > 5 GeV dR < 0.1 to muon**
 - ◇ **exclusion cone for muons**
 - ◆ study (reco pt - gen pt) vs. track kinematics
 - ◆ release validation
 - ◇ 382patch1
 - ◇ 390pre3
 - ◇ 382
 - ◇ 381patch3
 - ◇ 38
 - ◇ 3_8_5
 - ◇ 3_8_4_patch3 <<<----IMPORTANT
- susy
 - ◆ met templates
 - ◇ photon20 HLT cuts
 - ◇ rerun with more data
 - ◇ sync with ttdil (switch to jpts's)
 - ◇ fix template binning (0-30,30-60,60-90)
 - ◇ explore KEYS pdf's
 - ◇ implement b-tagging
 - ◇ use minbias to predict Z+0 jets met
 - ◇ understand Z+1 jet
 - ◇ include Wenu contamination: check distributions of haspixelseed, eta, jet neutral EM fraction, etc.
 - ◆ os susy search
 - ◇ check effect of: electron truth-matching, trigger selection, jpt corrections
 - ◇ check effect of including taus: reco vs. gen
 - ◇ ABCD: check 3rd variable Vienna group approach: section 17 of:
http://cms.cern.ch/iCMS/jsp/db_notes/noteInfo.jsp?cmsnoteid=CMS%20AN-2010/208
 - ◇ understand ttbar spin correlations
 - ◇ where to get k-factor from? data or mc?
 - ◇ consider increasing met cut to 75 GeV for ee,mm final state
- tracking
 - ◆ TEC backplane studies
 - ◇ Check TEC- before Apr 28th vs. after Apr 28th
 - ◇ Cut on TEC tan(theta_trk) > X
 - ◇ Check TEC results with geometries from alignment group
- ntupling
 - ◆ ttbar alpgen samples
 - ◆ DYntupling: <http://www.t2.ucsd.edu/tastwiki/bin/view/CMS/NtupleMakingInstructions>

- * for data-MC comparisons add an estimate on MET and JET scale using the prescribed 5% variation
for MET try/use $\text{deltaMET_H} = +/- (\text{vecMET} + \text{vecDilep}) * 0.05$, which is a hadronic MET scale
 - * **and, for completeness, similarly $\text{deltaMET_L} = +/- (\text{vecDilep}) * 0.01$.. can ignore it for now as it's small (I tried)**
 - * **for njets count jets with $\text{jetET} * (1 +/- 0.05)$**
- investigate how much rescaling is needed to get to an agreement.

Indico

- ICHEP Approvals [↗](#)

MET

- MET noise cleanup
- MET Validation
- MET template method [↗](#)
- TCMET Homepage
- TCMET Validation Page [↗](#)
- Code to generate single pion sample [↗](#)

Data/MC

- [SNT 7 TeV Datasets](#)
- [SNT MC Datasets](#)
- [SNT Ntupling Instructions](#)
- [SNT Specialized Skims](#)
- Collisions 2010 Data Analysis
- Recipes for 2010 Data Analysis
- [Hunt Dashboard](#)

Triggers

- Egamma HLT

CMS2 Code

- [CMS2 Code Documentation](#)
- [CVS Base](#)

CMS Miscellaneous

- [DBS](#)
- [CMS LXR Code Browser](#)
- [HyperNews](#)
- [CMS Notes](#)

Notes and Papers

- GMSB with early LHC data [↗](#)
- Data-driven methods for SUSY searches [↗](#)
- Inclusive W/Z Cross Sections [↗](#)
- Type1 and Type2 CaloMET in 7 TeV Data [↗](#)
- Gordons' Elba Talk [↗](#)
- top with taus [↗](#)

Research Topics

- Studies of alignment bias between peak and deconvolution CRAFT09 data: [AlignmentStudies](#)
 - Studies of track-corrected MET:
<http://www.t2.ucsd.edu/tastwiki/bin/view/CMS/TcMETInCMSSW3> (password-protected)
 - An opposite-sign SUSY analysis: <http://www.t2.ucsd.edu/tastwiki/bin/view/CMS/OsSusy> (password-protected)
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This topic: [Sandbox](#) > [BenHoobermanSandbox](#)

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