

Arun, Sascha et al, I have gone through the entire manuscript again, and left more comments than I expected in this Adobe Acrobat file. This is probably because I did not previously understand some of the language.

* Please make sure that all my changes make sense to you, as I suspect that some of the original wording may have been in somewhat broken English. For example, such ambiguous, unpunctuated gems as "very loose or tight and tight or loose!" that appears in L1083 can't possibly help the reader!

*Also, it would be good to remove some of the details currently appearing in the figure captions, and place them into the text.

* In addition, note and use the CMS rules entered in the guidelines about titles of sections and the beginnings of new sentences.

* See my comments about the CDF PRL that you refer to in L609.

* When dealing with items such as "the m_T of the tag electron or muon and the p_{Tmiss} system," please use the same notation for the vector object, or use "vector p_{Tmiss} (c.f. L681 and L 782 or caption for Fig. 8).

* And you probably should not use " μ " or " τ " when you really mean their p_T values, as this can confuse: That is, use $p_T\tau$, e.g., change " m_T of the muon and p_{Tmiss} " to: " m_T of the p_T vectors of the muon and p_{Tmiss} (or " $p_T\mu$ and p_{Tmiss}).

* You must define that mysterious $D\zeta$!

* You should not use the more controversial "adverbs" such as firstly, secondly, lastly, most importantly, etc, but stick to the adjective-adverbs such as first, second, last, most important...

In any case, you have done an excellent job in getting to this level of quality for this draft, but it still has some confusing sections that I am sure you will attend to with patience. I would send your next version for a fast reading by the ARC, and then onto the CWR!

Title:

of -> algorithms for

remove their

remove in the CMS detector (This info appears below)

collision -> colisions

against -> for

The method is also extended through a version .. -> The method is extended through software

Lorentz-boosted pairs -> Lorentz-boosted τ lepton pairs

and a version used -> and through a version used

The performance of the algorithm is investigated using proton-proton

collisions recorded at $\sqrt{s} = 13$ TeV with an integrated luminosity of 35.9 fb^{-1} . ->

The performance of the algorithm is evaluated using proton-proton

collisions recorded at $\sqrt{s} = 13$ TeV for an integrated luminosity of 35.9 fb⁻¹.

and muons being misidentified as tau leptons -> and muons to be misidentified as tau leptons

as well as the reconstructed energy scale of τ -> as well as relative to the reconstructed energy scale of τ lepton

the Monte Carlo simulation -> Monte Carlo simulation

Table of Contents:

General comment: CMS recommends not to lead any titles or sentences with acronyms or symbols, but at the least insert "The" in before such objects.

Hadrons-plus-strips algorithm -> The hadrons-plus-strips algorithm

Tau discrimination against electrons -> Discrimination of τ leptons against electrons

Reconstruction of highly-boosted tau pairs -> Reconstruction of highly-boosted τ lepton pairs

Z/γ -> $\tau\tau$ events -> The Z/γ -> $\tau\tau$ events

$\mu\tau$ final states in $\tau\tau$ events -> The $\mu\tau$ final states in $\tau\tau$ events

Z/γ -> $\mu\mu$ events to constrain the normalization of Drell-Yan (DY) events -> The normalization of Z/γ -> $\mu\mu$ to constrain Drell-Yan (DY) events

W -> $\mu\nu$ +jets events -> The W -> $\mu\nu$ +jets events

$e\mu$ final states in tt events -> The $e\mu$ final states in tt events

Z/γ -> ll events for l -> τ misidentification probability measurements -> The Z/γ -> ll events for measuring l -> τ misidentification probability

Jet-to-tau misidentification probability -> Jet-to- τ misidentification probability

General question: You have a decent summary of the contents in the introduction. Do you also need the details provided on this page?

Introduction:

L48: many searches beyond the SM, such as -> many searches beyond the SM, involving objects such as

L49: supersymmetry -> supersymmetric particles

L52: $= (1776.86 \pm 0.12)$ MeV -> $= 1776.86 \pm 0.12$ MeV

L58: Almost all the remaining decays of τ leptons are into hadrons -> Almost all the remaining decays of τ leptons contain hadrons

L61: remove "which are"

L62:using the tracks from the inner tracker.... -> using the trajectories in the inner tracker

L62:and pi0 candidates by clustering photon.... -> and pi0 candidates, by clustering photon

L67: ...\tau decays are of lower multiplicity... -> ...\tau decays have lower multiplicities...

L68: misidentification -> misidentification (MisID) [As used in Fig. 2 & 3]

L72-74: dynamic-strip reconstruction that change the size of a strip in a dynamic way to accumulate the pi0 decay products more effectively -> dynamic-strip reconstruction that changes the size of a strip in a dynamic way to accumulate more effectively the pi0 decay products.

L78: that combines -> by combining

L78: \tau life time -> life time of the \tau lepton

L84: and its simulation -> and in its simulation

L92: identification at the high-level trigger (HLT) -> identification in the high-level trigger (HLT)

Section - 2:

L98: endcap sections -> end sections

L104: 80-90% -> 80\--90%

L113: endcaps, covering -> end sectors, covering

L118: with coverage -> with a coverage

L120: The muon detection system is made up of four stations -> The muon detection system has four stations

L122: endcap region -> end regions

L124: is employed by CMS to select -> is employed to select

L124-125: select interesting events out of the 125 LHC bunch crossing rate of up to 40MHz -> select interesting events from the 125 LHC bunch crossings for rates of < 40MHz

L125: custom hardware -> custom-made hardware

L126-127: The second level, known as the high-level trigger (HLT) -> The second level, referred to as the HLT

L129: optimized for fast processing, and reduces the event rate to -> optimized for fast processing, which reduces the event rate to

This topic: Main > TauIDTomComments

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