1	EVIDENCE FOR DECAYS OF THE HIGGS BOSON TO TAU
2	LEPTONS AT ATLAS

3	Alexander Tuna
4	A DISSERTATION
5	in
6	Physics and Astronomy
Ü	
7	Presented to the Faculties of The University of Pennsylvania
8	in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy
9	2014
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Acknowledgements

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ABSTRACT

EVIDENCE FOR DECAYS OF THE HIGGS BOSON TO TAU LEPTONS AT ATLAS

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H.H. Williams

46

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51

52

Abstract abs

Contents

60	Acknowledgements				
61	Abstract				
62	Contents				
63	Pr	eface	3	vi	
64	1	Intr	oduction	1	
65	2	taus	;	2	
66	3	stra	$_{ m tegy}$	4	
67		3.1	Introduction	4	
68		3.2	Categorization	4	
69		3.3	au au mass reconstruction	4	
70		3.4	MVA discrimination	4	
71	Ri	hlioo	ranhy	13	

Preface

> Ryan Reece CERN, December 2012

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72

CHAPTER 1 Introduction

88 Here is a citation [1].

89	Chapter 2
90	Tau leptons

2. Taus 3

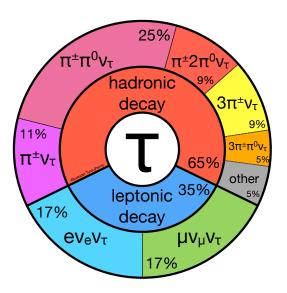


Figure 2.1: Variables.

Chapter 3

$H \to \tau \tau$ analysis strategy

- The strategy of the $H \to \tau \tau$ strategy is described.
- 94 3.1 Introduction

91

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- 95 3.2 Categorization
- 96 3.3 $\tau\tau$ mass reconstruction
- 97 3.4 MVA discrimination
- Here is a citation [1].

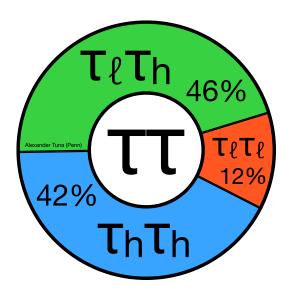


Figure 3.1: Variables.

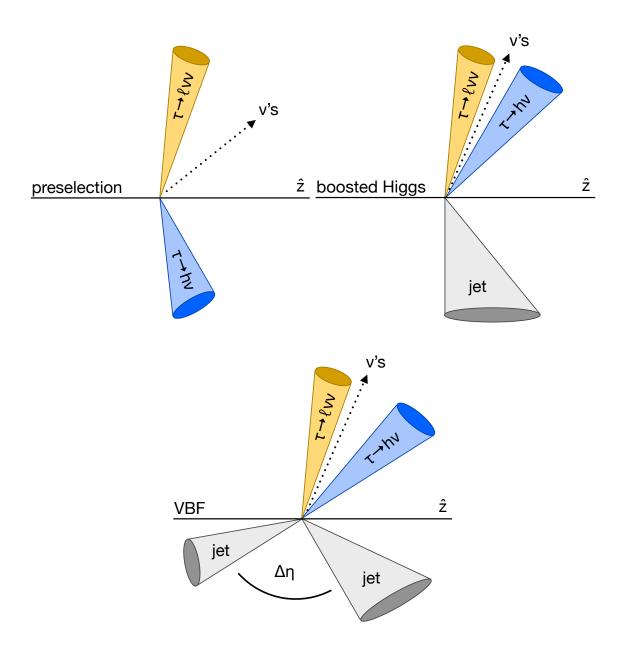


Figure 3.2: Variables.

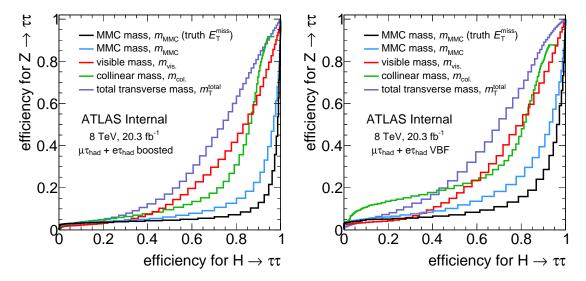


Figure 3.3: Variables.

3. Strategy 8

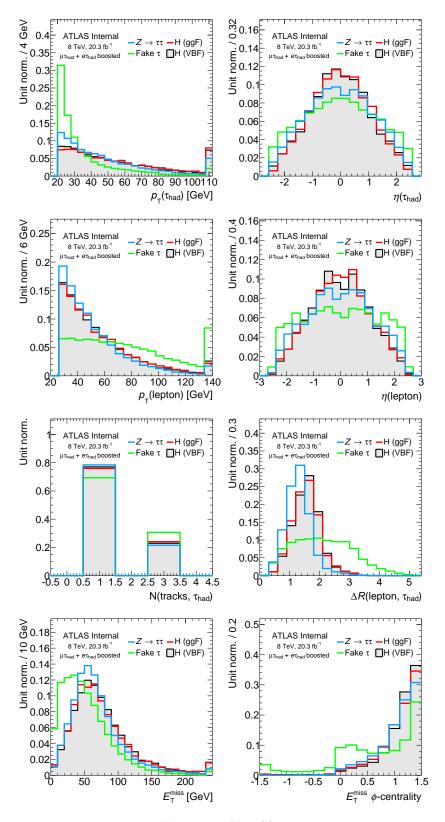


Figure 3.4: Variables.

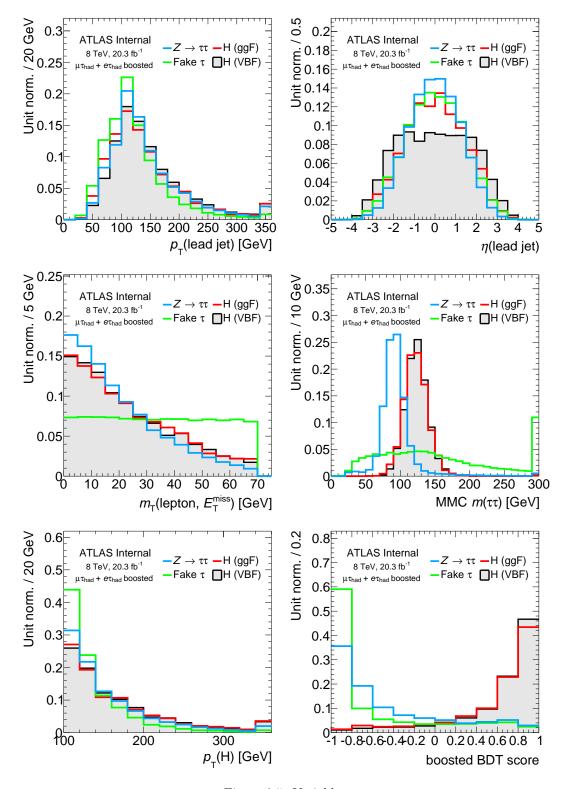


Figure 3.5: Variables.

3. Strategy 10

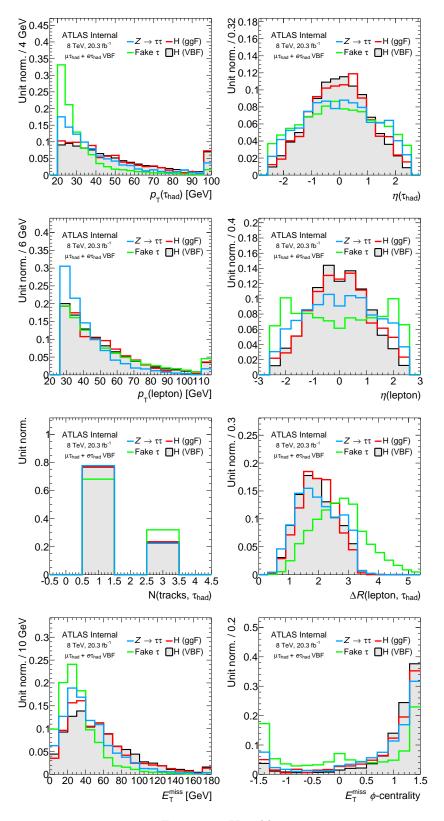


Figure 3.6: Variables.

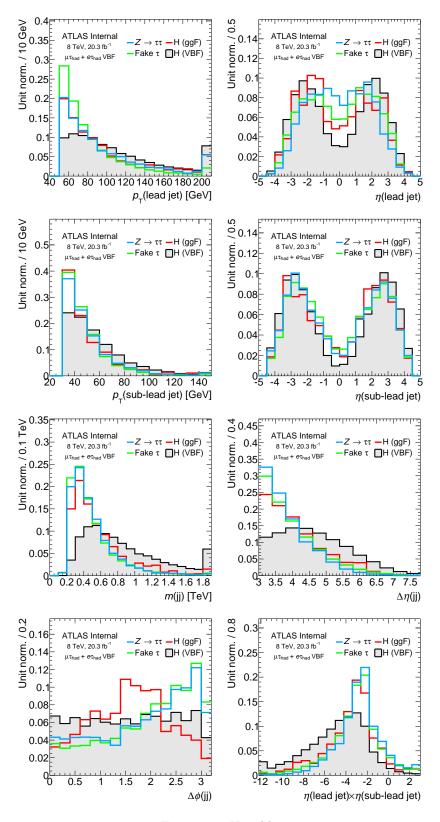


Figure 3.7: Variables.

3. Strategy 12

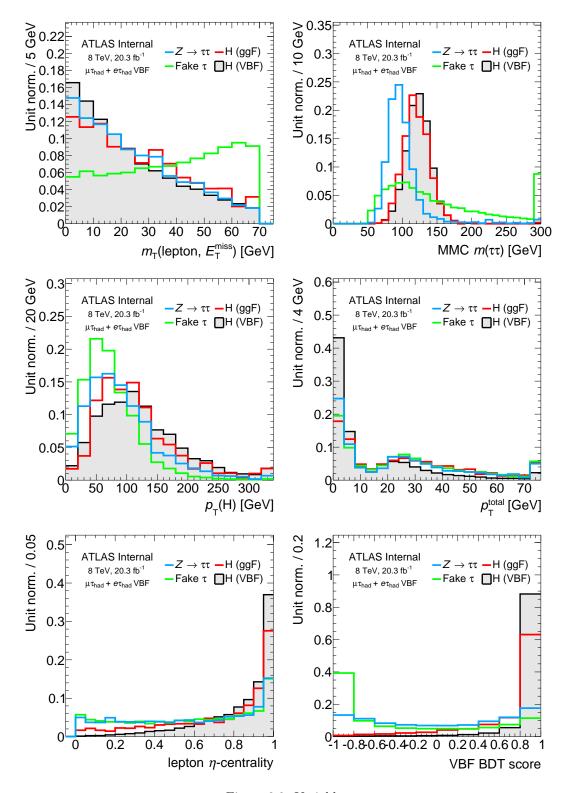


Figure 3.8: Variables.

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