



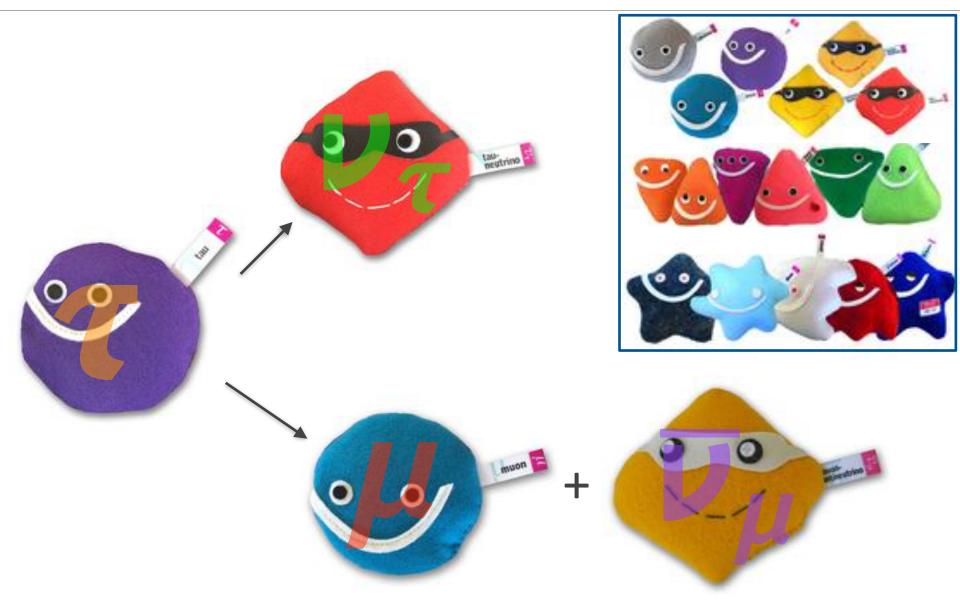
Search for Lepton Flavour Violation

Marcus M. Morgenstern

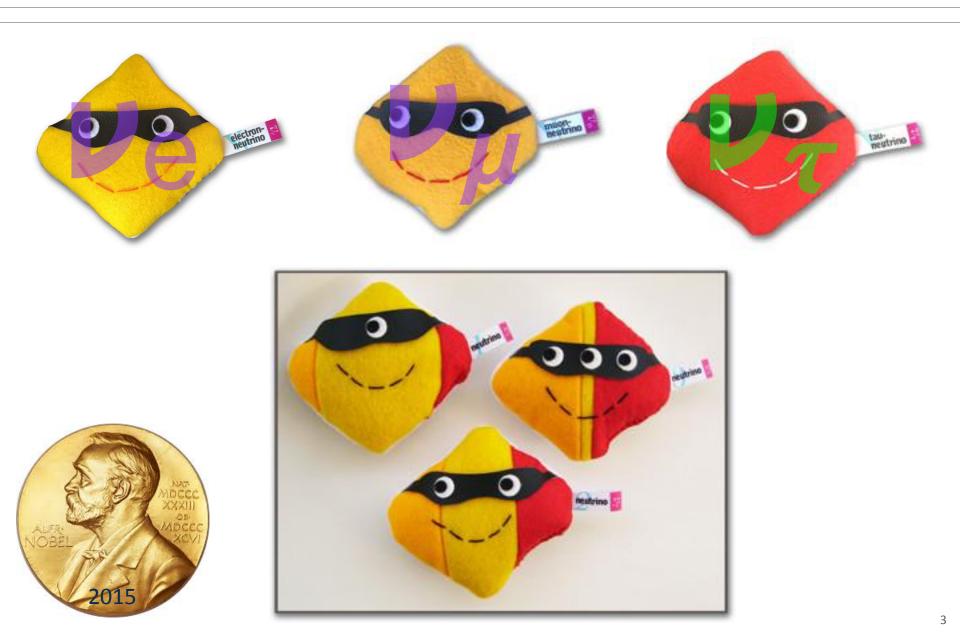
Nikhef Jamboree December 11th, 2017



What does the Standard Model tell us?



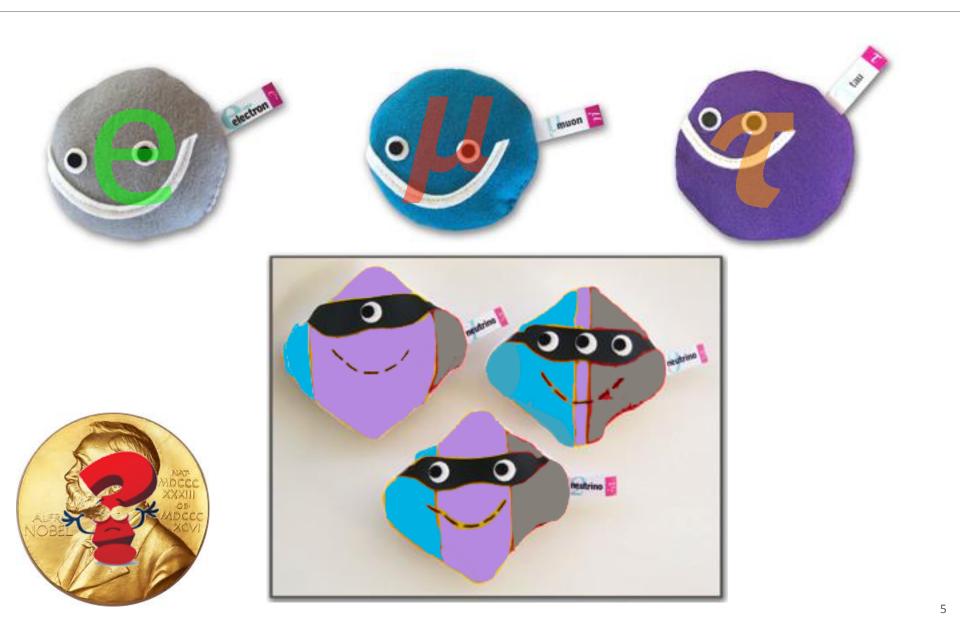
Why should we think about Lepton Flavour Violation?



A long road to Nobel...



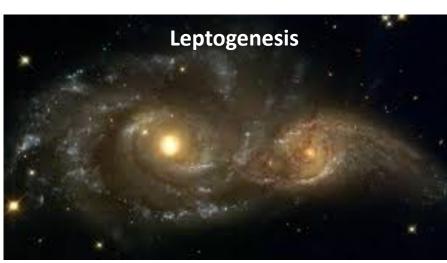
What about charged Lepton Flavour Violation?



Is there any theoretical motivation? 😌

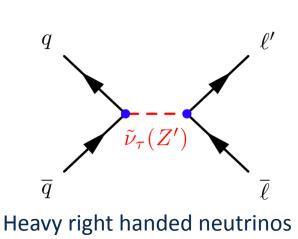
Matter-anti-matter asymmetry

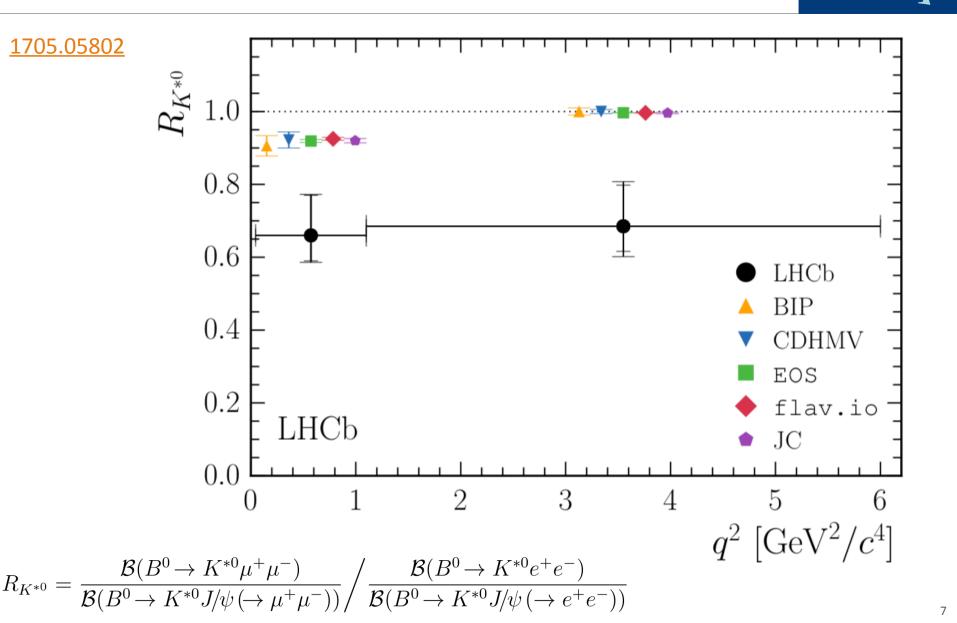








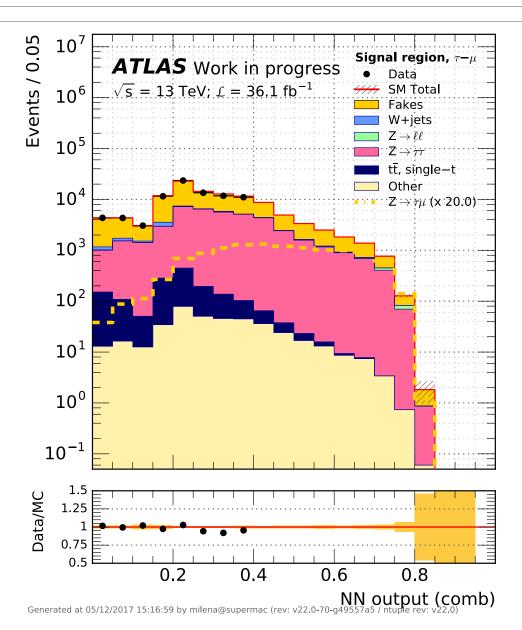


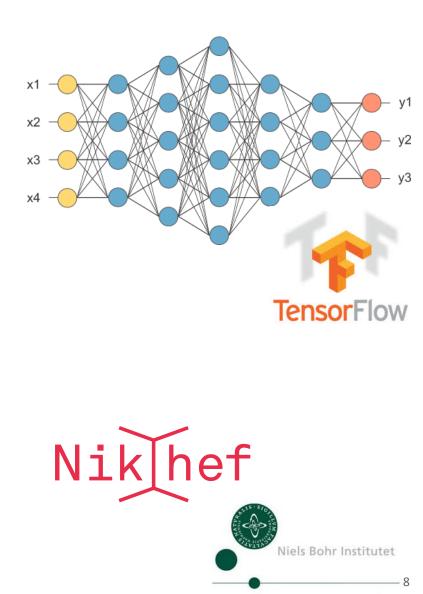




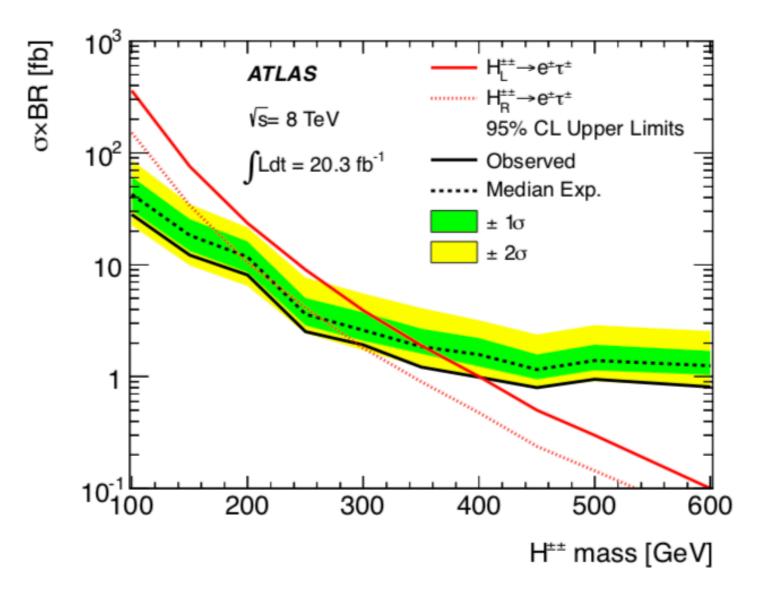




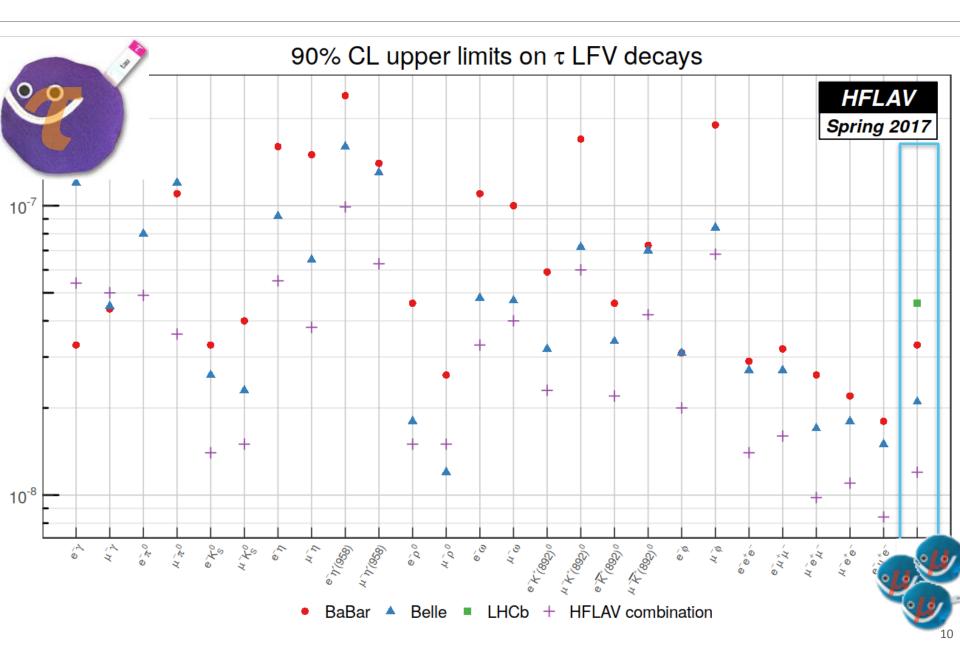






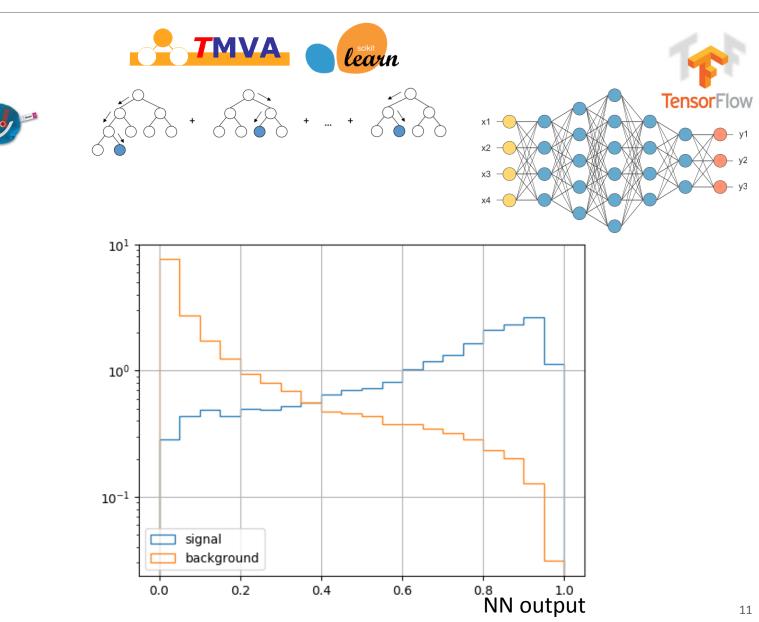


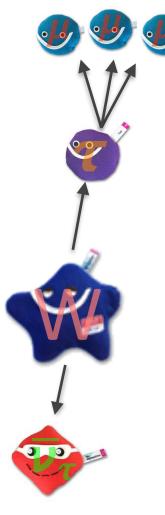
Is there anything else?



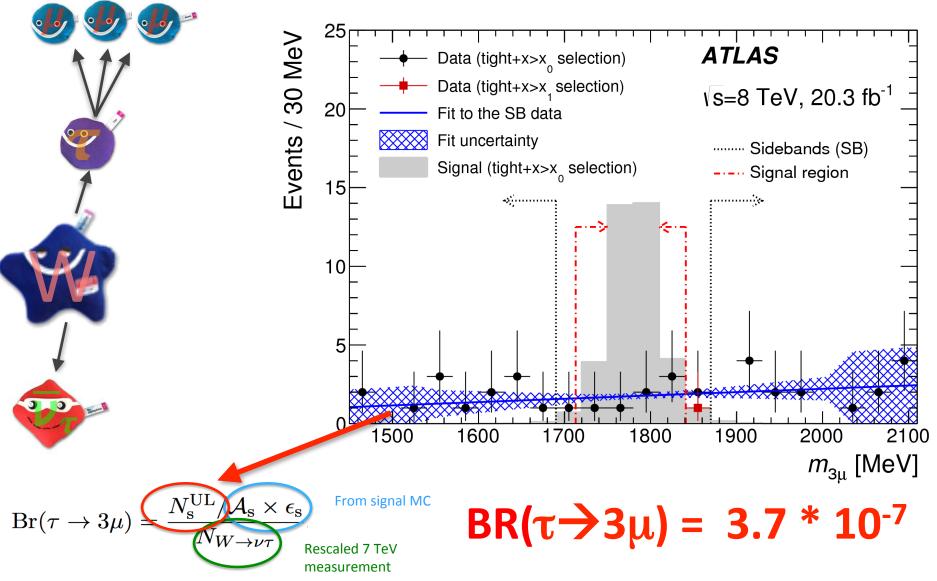




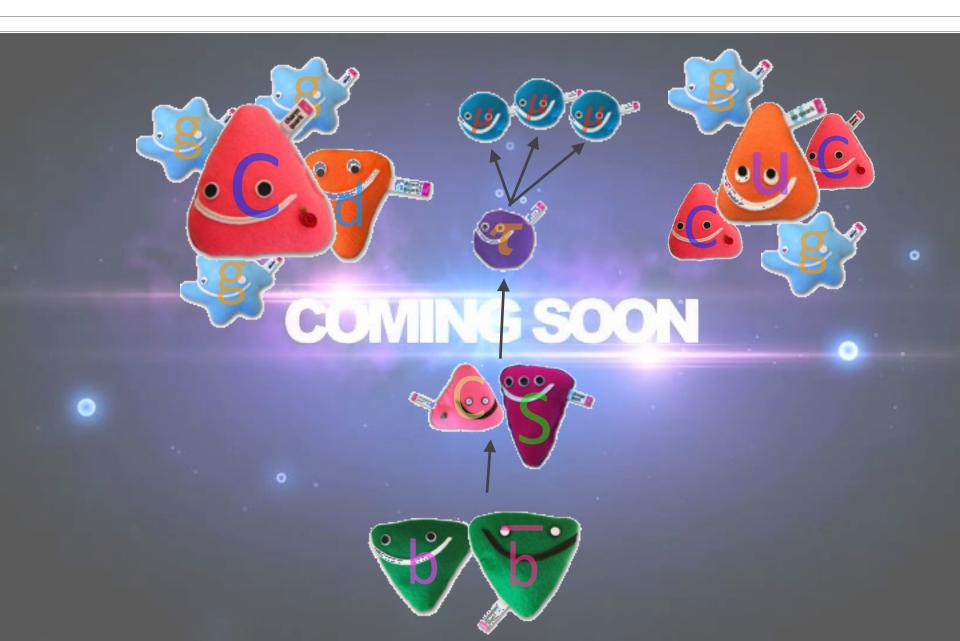




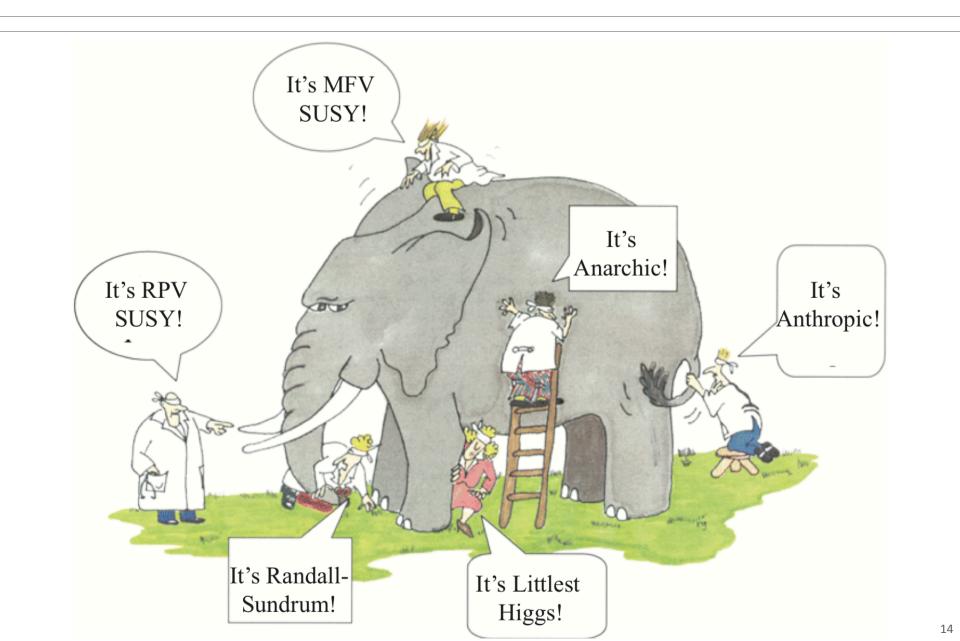








What if we observe Lepton Flavour violating decays?



Summary & Outlook

Nikhef jamboree

chaired by Charles Timmermans, Dorothea Samtleben

from Monday, 11 December 2017 at **08:00** to Tuesday, 12 December 2017 at **18:00** (Europe/Amsterdam) at **Pakhuis De Zwijger**

Participants Dorothea Samtleben; Eveline Schram - Post

Go to day -

Monday, 11 December 2017 2018

10:00 - 10:30	Arrival	
10:30 - 10:40	Opening	
10:40 - 11:30	KM3NeT	
	10:40	Introduction 15'
		Speaker: Paul de Jong
		Material: Slides 🔂
	10:55	KM3NeT construction: status and plans 20'
		Speaker: Ronald Bruijn
	11:15	KM3NeT in-situ calibration 15'
		Speaker: Karel Melis
11:30 - 12:00	Jan Kluyverprijs	
12:00 - 13:15	Lunch	
13:15 - 14:30	ATLAS	
	13:15	Introduction & Overview 15'
		Speaker: Wouter Verkerke (Nikhef)
	13:30	Upgrade activities 15'
		Speaker: Marcel Vreeswijk
	13:45	CP violation in Higgs production 15'
		Speaker: Remco Castelijn
	14:00	Higgs production in association with dark matte 15'
		Speaker: Veronica Fabiani

14:15 Charged Lepton Flavor Violation 15' Observation of charged lepton violation Speaker: Marcus Morgenstern