



Eleanor Jones
DESY FH Fellow Meeting
Friday 21st April 2023

About Me

My life with Heavy Higgs':
A Journey Beyond the
Standard Model

My Durham University Fact File

- ❖ **Years:** 2014 — 2018
- ❖ **Course:** Natural Sciences
(Chemistry, Physics and Maths)
- ❖ **Degree:** Joint Honours in Maths
and Physics (MSci)
- ❖ **Masters Thesis:** Higgs studies at
present and future colliders
(Phenomenology at IPPP)



2014-2018

Undergraduate at
Durham University

My Warwick University Fact File

- ❖ **Years:** 2018 — 2022
- ❖ **Ph.D Thesis:** Study of high- p_T Higgs boson production in the $b\bar{b}$ decay channel and calibration of the $X \rightarrow b\bar{b}$ tagger with the ATLAS detector
- ❖ **Defended:** 23rd September 2022
- ❖ **Corrections Accepted:** 11th January 2023
- ❖ **Graduation:** This summer! 🙌

2018-2022
Ph.D at
Warwick University

My Warwick University Fact File

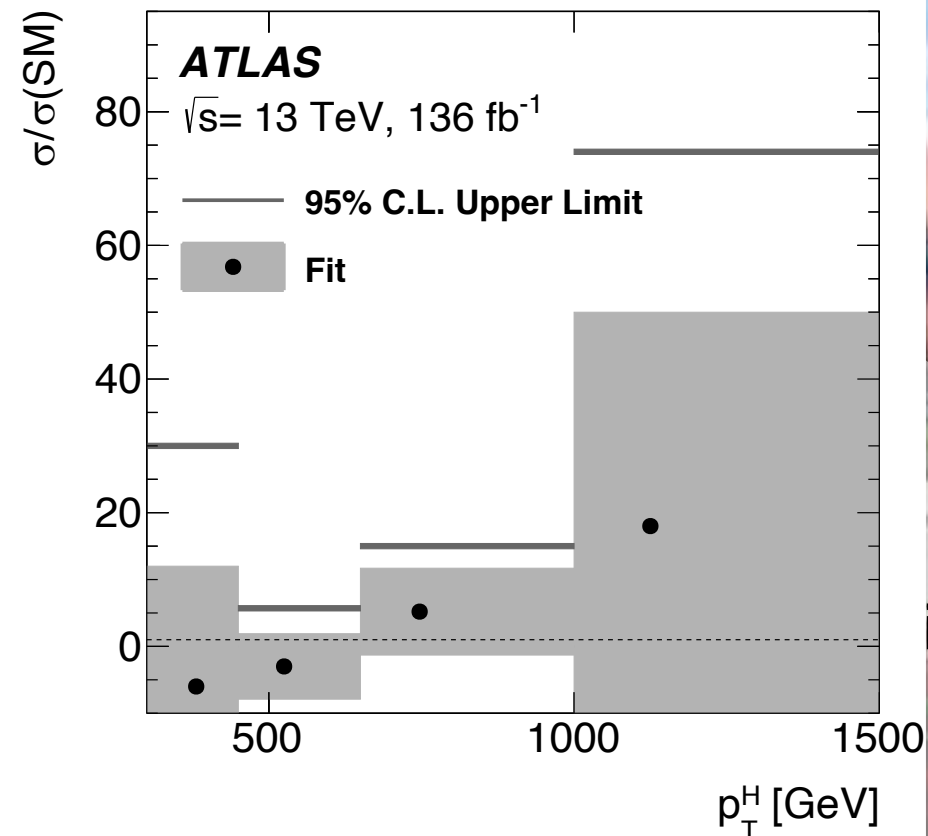
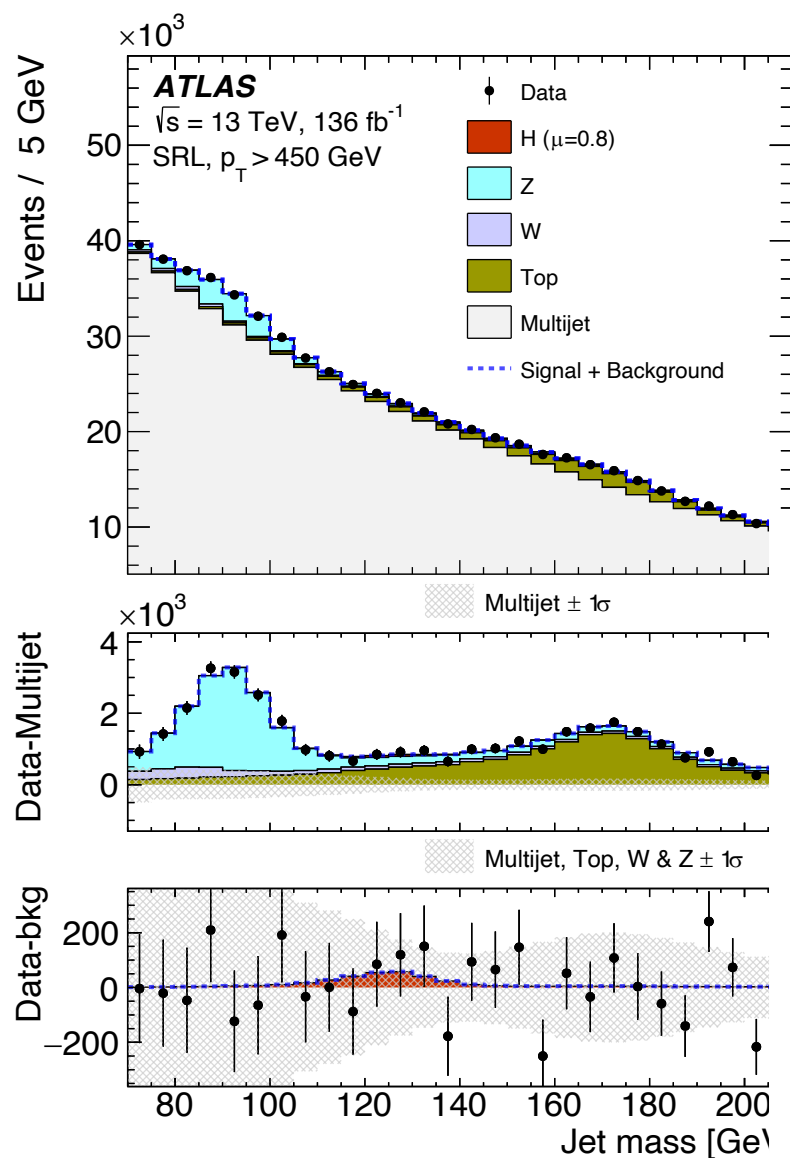
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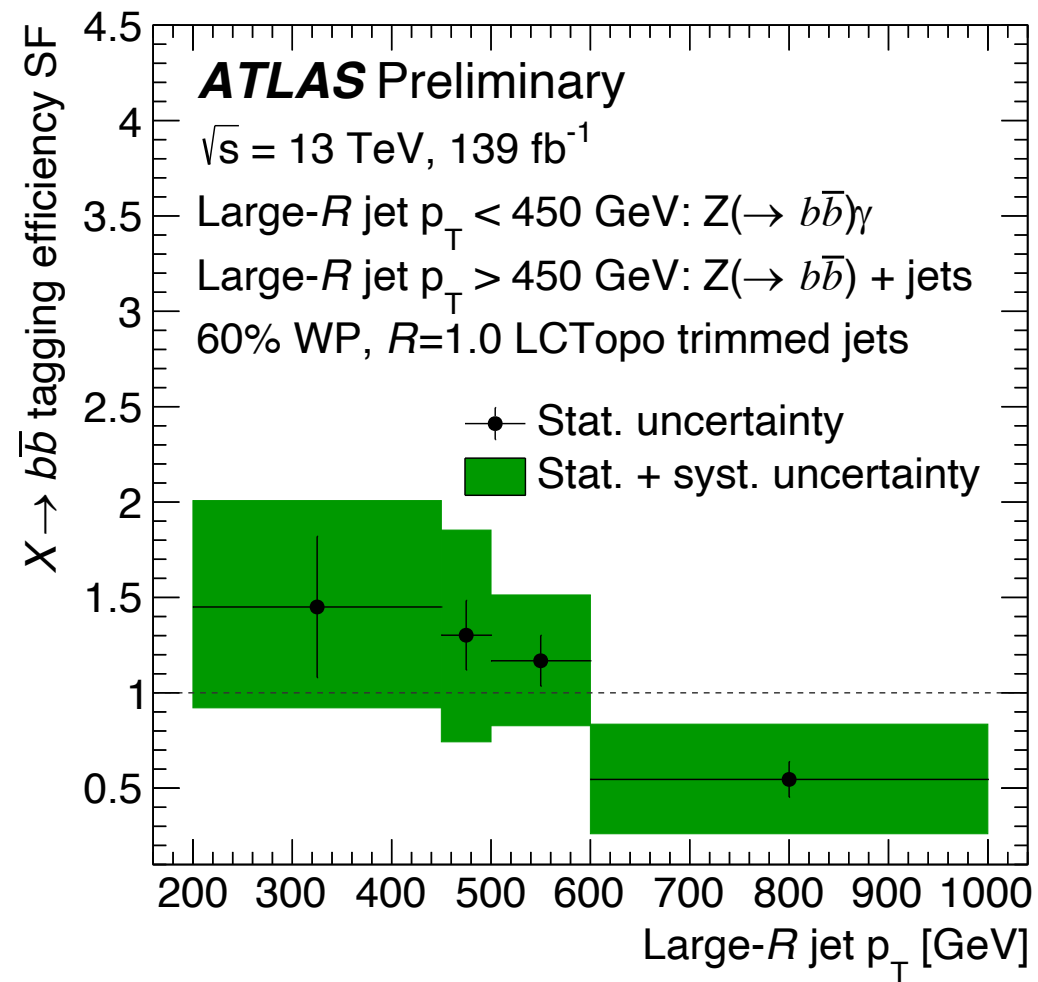
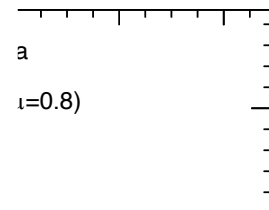
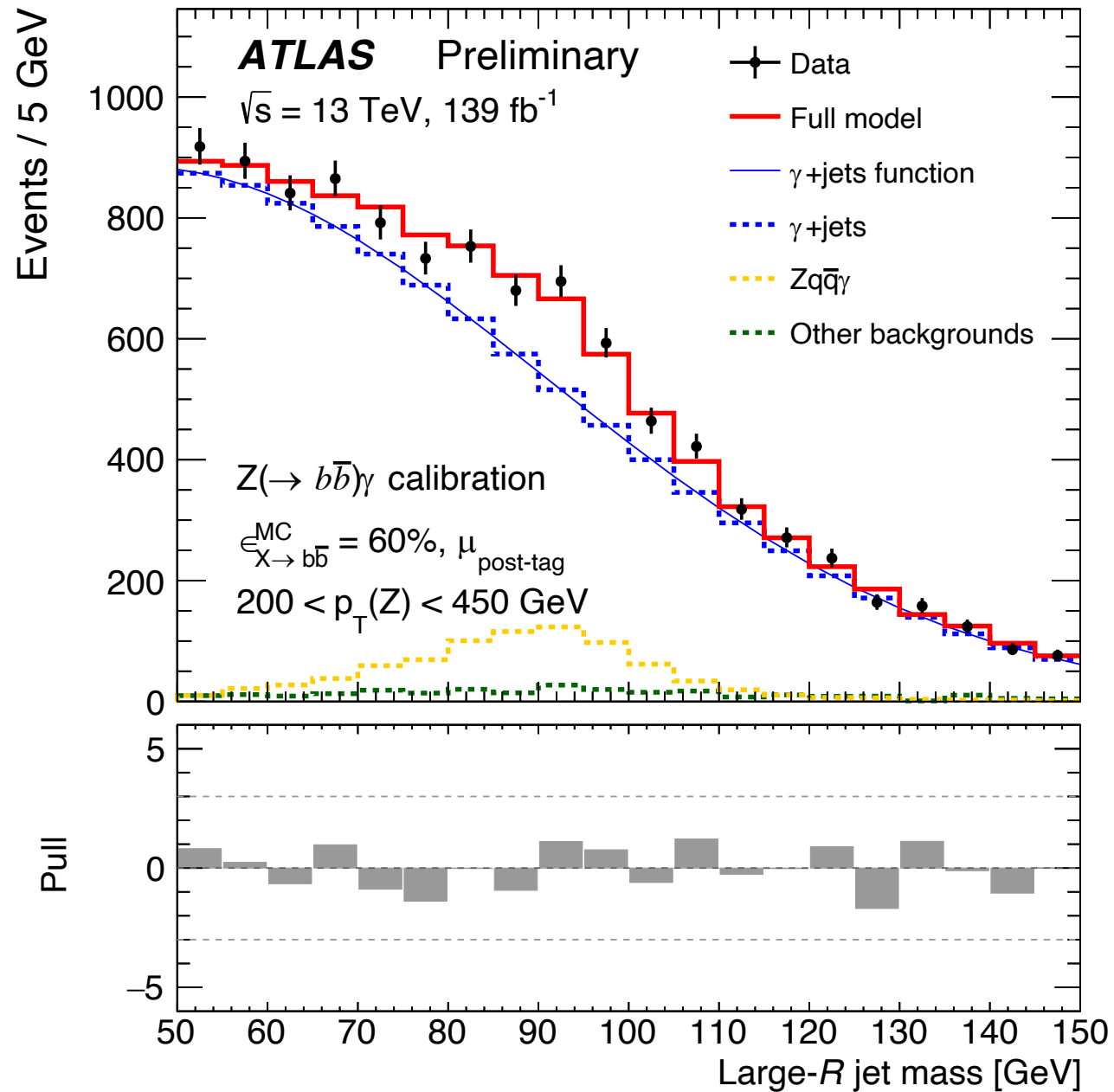
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My DESY Fact File

- ❖ **Years:** 2022 —
- ❖ **Group:** Young Investigator Group of Katharina Behr (ATLAS)
- ❖ **Analysis:** $gg \rightarrow A / H \rightarrow t\bar{t}$ (ongoing) and $t\bar{t}$ entanglement measurement (future)
- ❖ **Upgrade:** Electrical testing of the petal cores

2022-
DESY Fellow

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Katharina Behr (ATLAS)

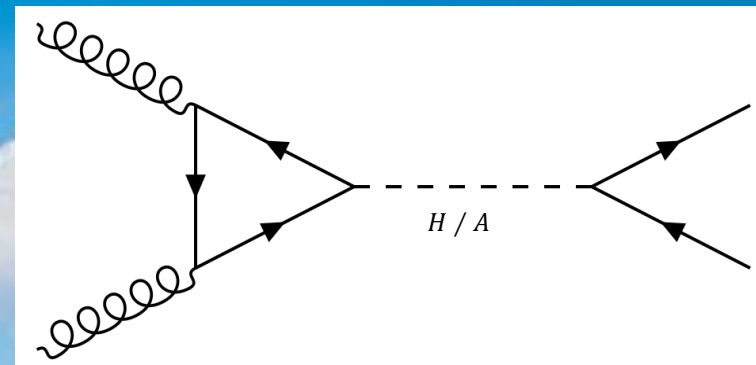
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petal cores

$t\bar{t}$ final state

Heavy Higgs boson
decays

SM $t\bar{t}$ production

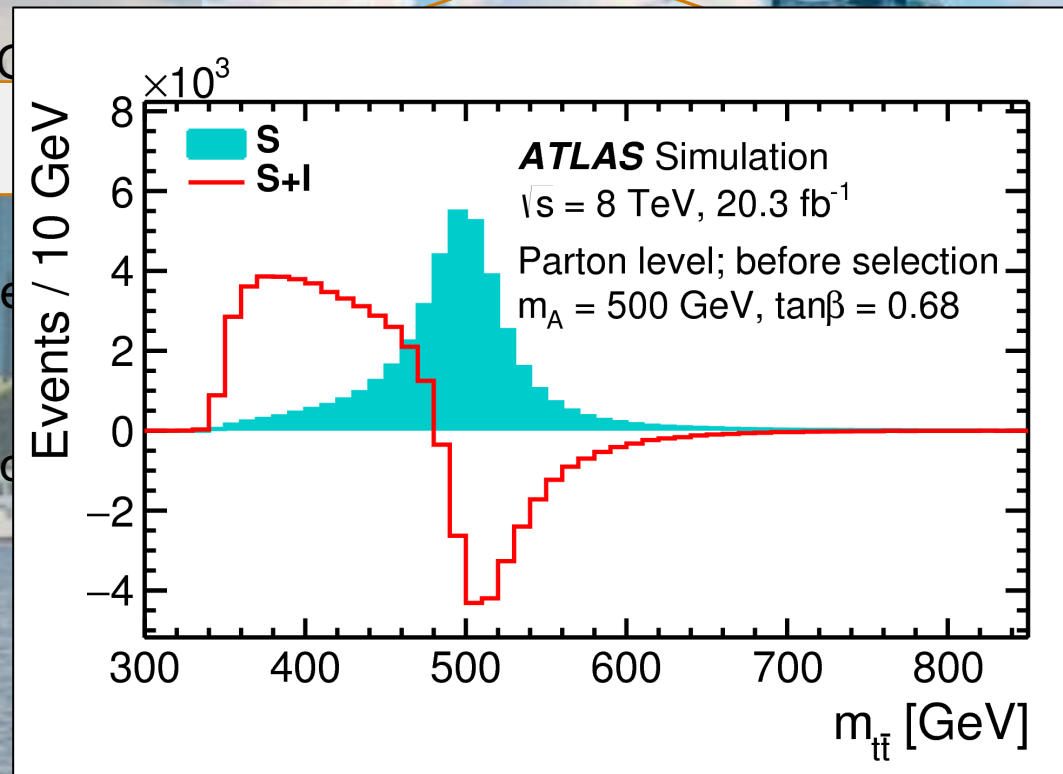
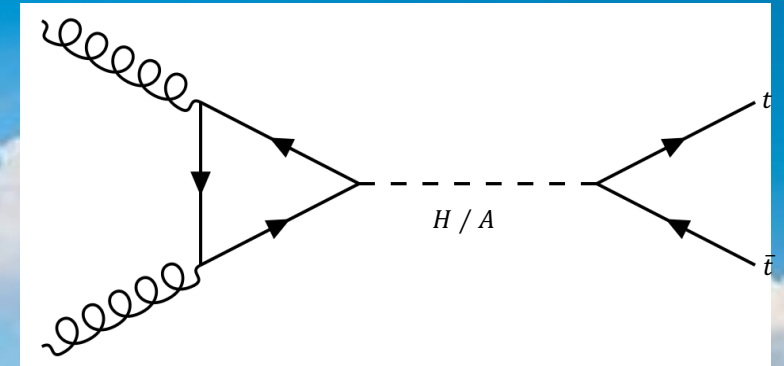


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2022-
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Thanks!