

# LHCb highlights

Staff meeting March 18<sup>th</sup> 2018

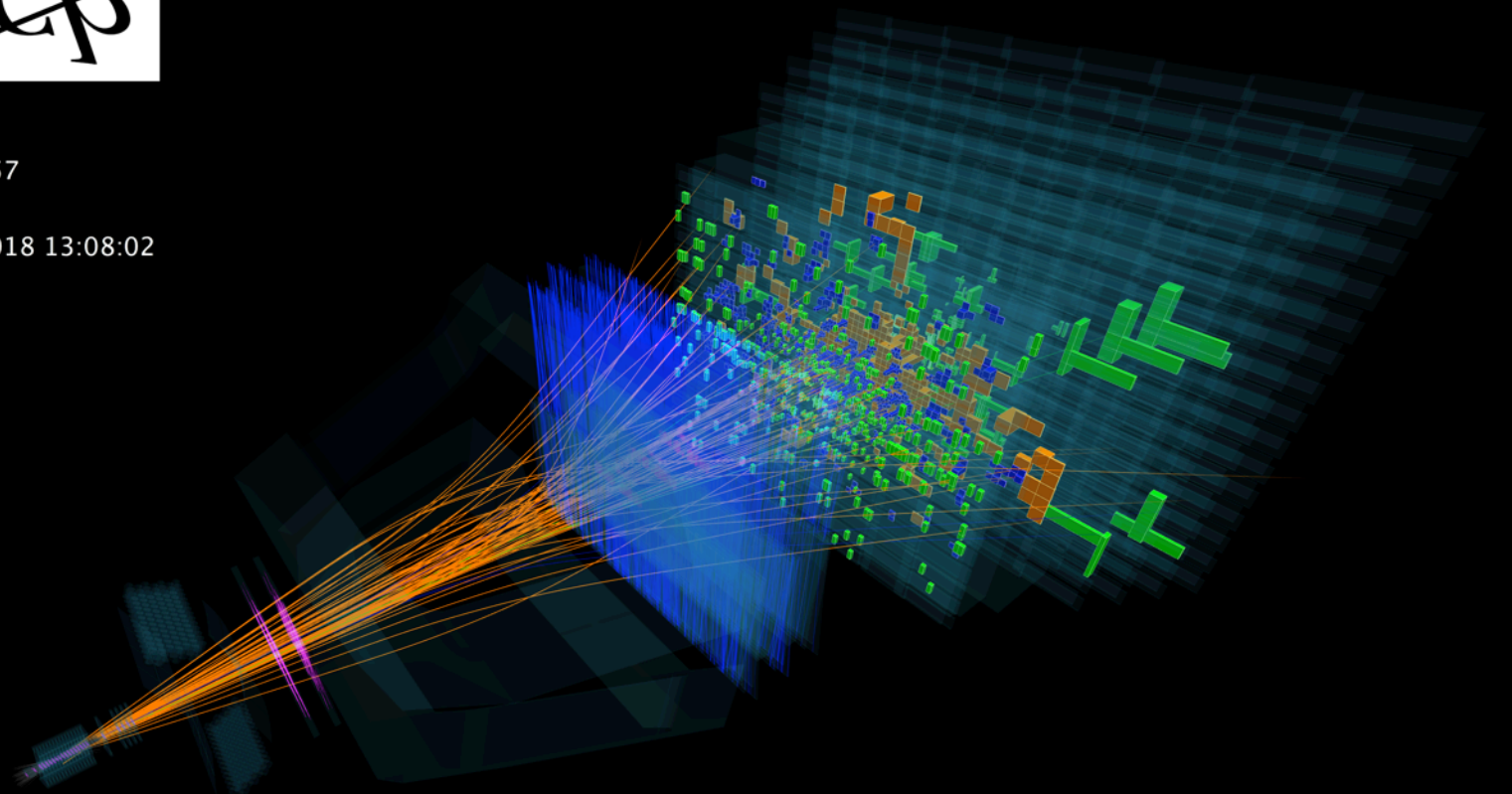
# 1. First collision event of 2018

**LHCb**  
**LHCb**

Event 12429657

Run 205922

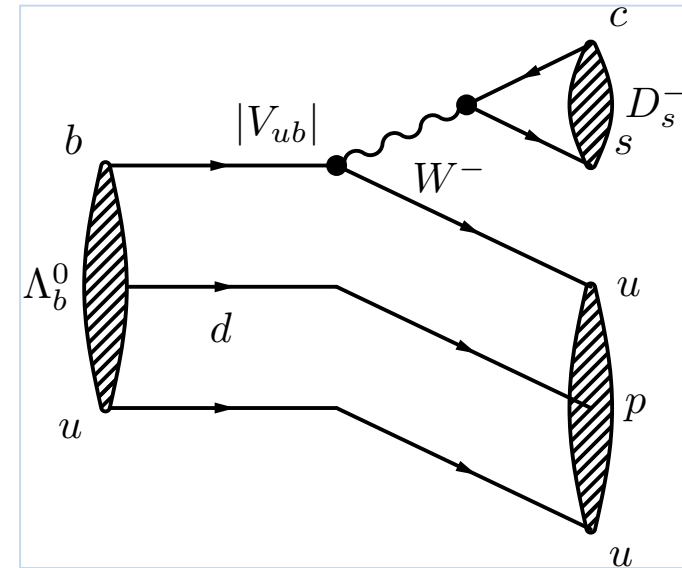
Tue, 17 Apr 2018 13:08:02



## 2. Nikhef master student discovers new decay

$\Lambda_b^0 \rightarrow p D_s^-$  is rare b-baryon decay:

- proportional to  $|V_{ub}|$
- BF gives test of QCD factorisation
- **MSc project** of Marinda Vervoert



PDG:

$\Lambda_b^0 \rightarrow p D_s^-$

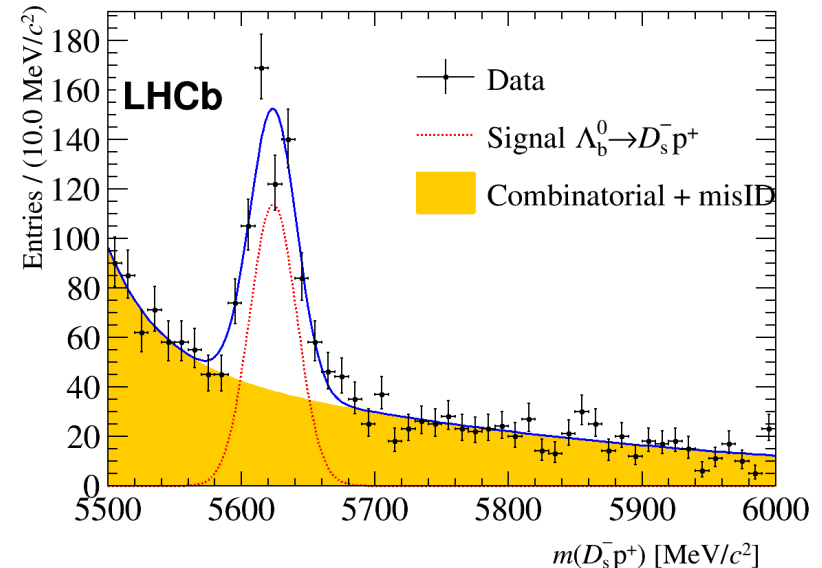
$\Gamma(\Lambda_b^0 \rightarrow p D_s^-) / \Gamma_{\text{total}}$

VALUE

CL%

$< 4.8 \times 10^{-4}$

90

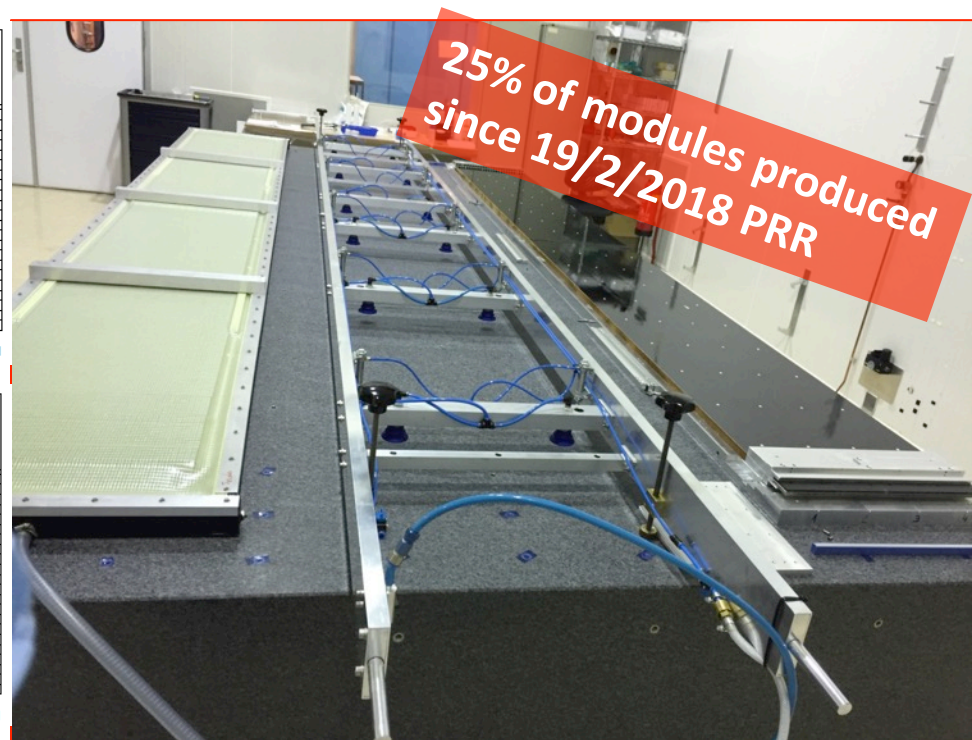
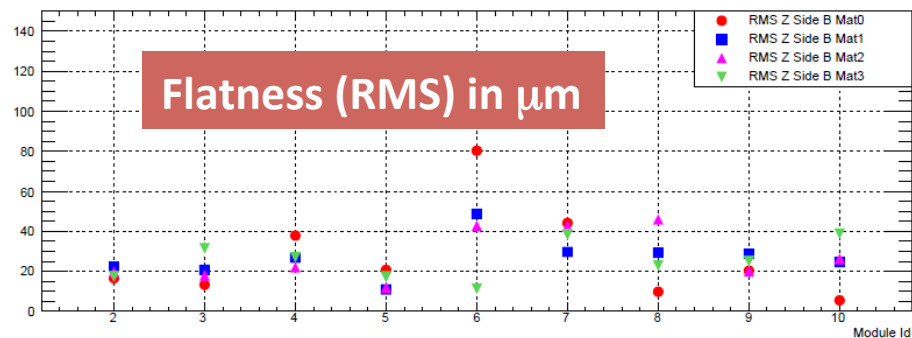
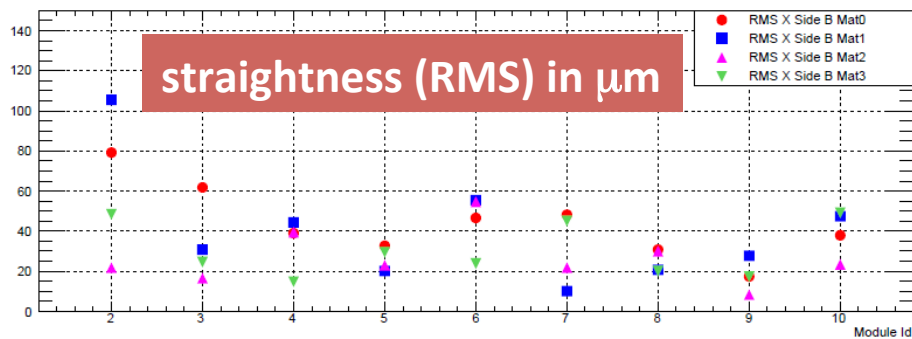


*Never seen before!*

# 3. Upgrade production reviews

Two important upgrade review meetings hosted at Nikhef:

- SciFi module production: February 19



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