


Weekly Report

Shudong WANG

Progresses

- IHEP ATLAS-ITk

- Submitted a new response to **PPB-1 readiness review**, we're allowed to build PPB-1 hybrids/modules 🍦🍦🍦.

 **Sven Wonsak** 2023-02-08 20:03
发至 Xin Shi、Sven Wonsak、Anne-Luise Poley、atlas-upgrade-itk-strip-module-AC (ATLAS Upgrad...; 抄送 Zijun Xu、zhangxiyuan、wangsd、mkurth、craig.sawyer
(此邮件由 sven.wonsak@cern.ch 代发)

Re: Request for IHEP to start building PPB-1 modules

Dear Xin,

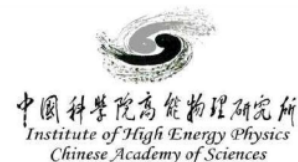
thank you. We have reviewed your comments.
We are happy for you to start with PPB-1. Please make sure to look at the "Going forward" section (and the other comments) when you build the new parts.

Some additional notes:

- Please keep in mind that pull test raw files now have added to the database test as attachment, not in the "Test File" field.
- For the registered hybrid panels, your RFIDs are only 6 digits short. How did you read them out? The default for these chips is much longer. Did you change them?
- For the hybrid bonding test: The failed wires section should only be used if the wire was not repaired, so if it is missing. Similarly, don't count those for the failed backend bonds.
- For the future, please add comments to failed visual inspection tests.

Progresses

- IHEP ML Innovation
- Presented a talk at the IHEP ML Innovation Group Meeting last week.



Highlights from 6th ATLAS Machine Learning Workshop

Shudong Wang

IHEP ML Innovation Group Meeting, February 9, 2023

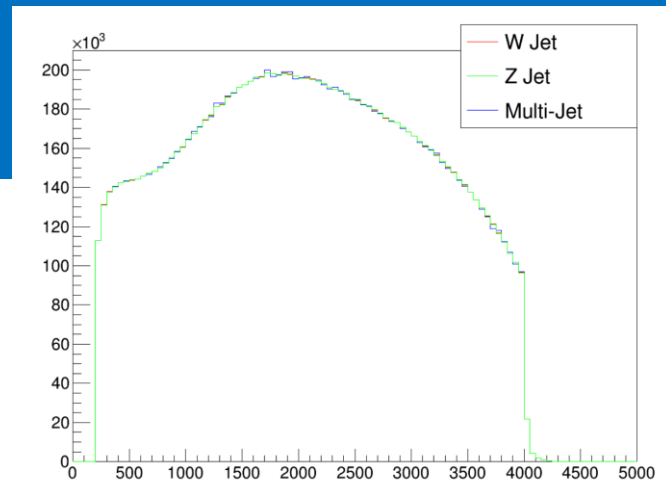
2023/2/9

wangsd@ihep.ac.cn

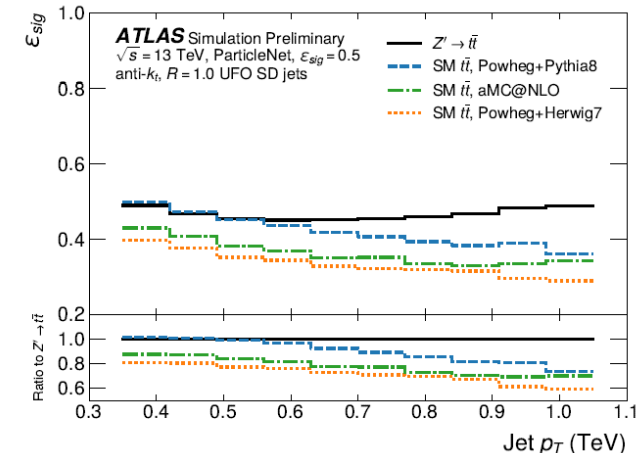
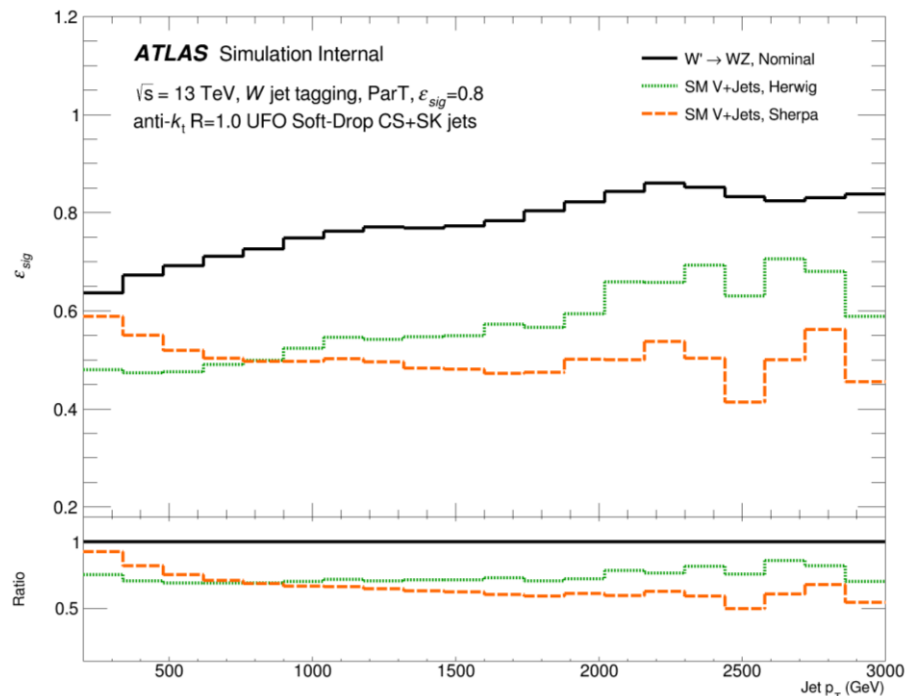
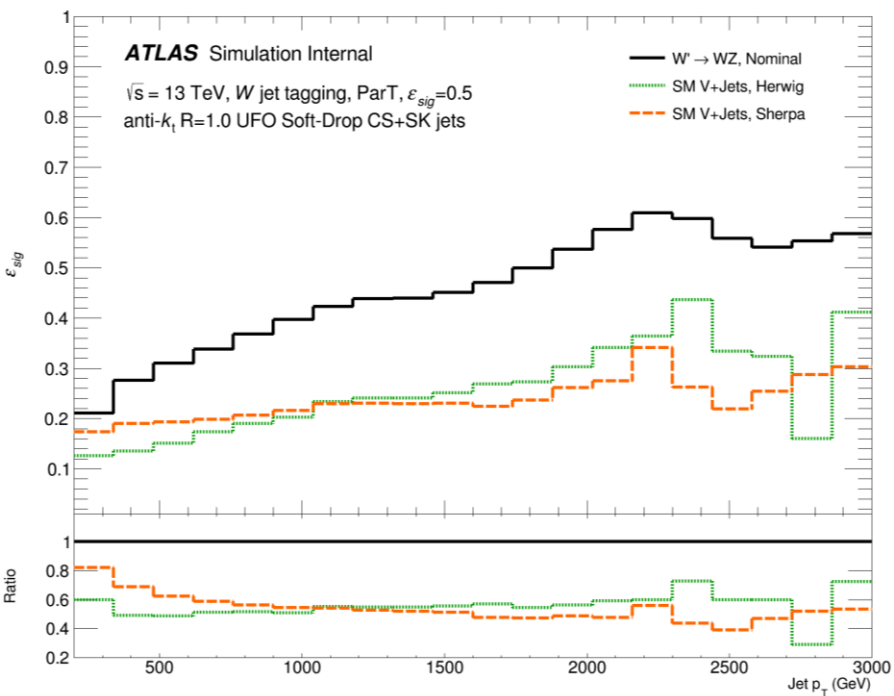
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Progresses

- **Constituent-based W/Z tagger**
- Model dependency check (sensitivity to physics modeling)
 - Trained on the nominal sample, evaluated on the two alternative samples. The signal efficiency in each sample is measured using the threshold which results in a signal efficiency of 0.5 / 0.8 in the nominal sample.



Possible solution: retrain with flat p_T sample?



similar tests in top tagger study