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Type: **Poster + flash-talk**

## **ATLAS measurements of correlations between Upsilon mesons and inclusive charged particles**

*Monday 1 August 2022 18:30 (10 minutes)*

This talk presents a new measurement studying the relationship between the production of hard and soft particles through the correlation of Upsilon meson states with the inclusive-charged particle yields in 13 TeV pp collisions. Measurements are made differentially for Upsilon momentum and for different Upsilon states. The analysis is performed using the full-luminosity ATLAS Run-2 13 TeV pp data. This measurement benefits from the heavy-ion style approach to remove the combinatorial and pileup backgrounds leading to increased sensitivity. A description of the technical challenges associated with a heavy-ion style analysis in high-pileup pp data will be shown, as well as the results and their physics implications.

### **On behalf of collaboration?**

ATLAS Collaboration

### **Attending in-person?**

Yes

### **Subfield**

HEP experiment

### **Preferred track**

Hadron Spectroscopy

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**Session Classification:** Poster Session