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## **Data quality and position reconstruction of the small-strip Thin Gap Chambers (sTGC) of the ATLAS NSW**

The Large Hadron Collider at CERN replaced the innermost station of the forward muon system with the New Small Wheels (NSWs). The goals of this upgrade are reduction of fake muon triggers and better handling of the increased hit rates of the future high-luminosity LHC. The NSW consists of eight layers of micromegas (MM) chambers and eight layers of small-strip thin gap chambers (sTGC). Both detector technologies provide precision tracking information and trigger signals for the readout. This presentation focuses on the sTGC data from online monitoring and from offline reconstruction that is collected in the summer of 2022.

### **Is this abstract from experiment?**

Yes

### **Name of experiment and experimental site**

ATLAS experiment, CERN, Switzerland

### **Is the speaker for that presentation defined?**

Yes

### **Details**

Michael Schernau, UC Irvine

### **Internet talk**

No

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