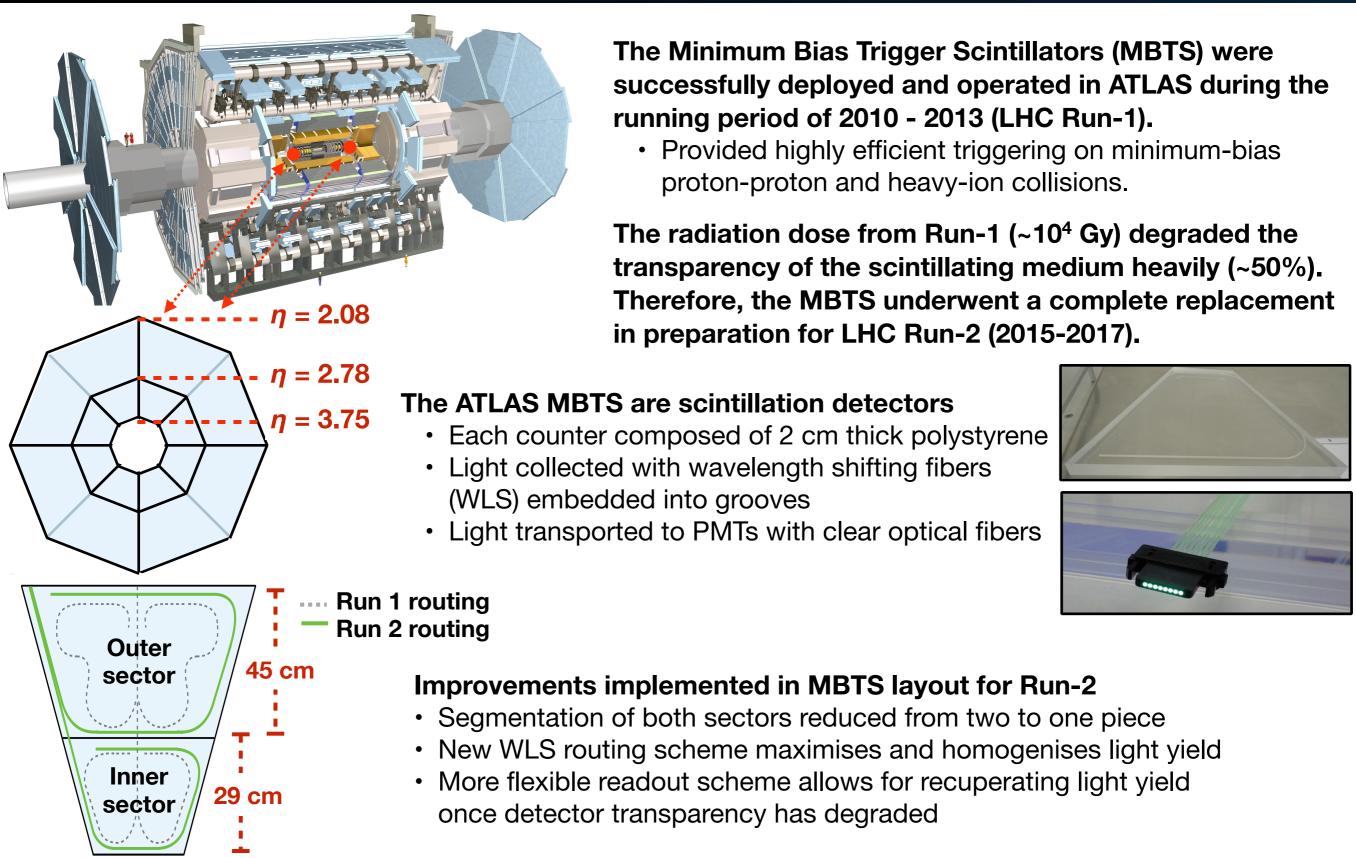
Minimum Bias Trigger Scintillators for ATLAS Commissioning and Run 2 Initial Operation



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Minimum Bias Trigger Scintillators for ATLAS Commissioning and Run 2 Initial Operation

A Run-2 MBTS counter was characterised with cosmic radiation in a laboratory setup

- · Light yield from inner and outer sector determined
- Light yield when using 4 or 8 WLS tested
- Attenuation of clear fibers intended for installation determined

Measured light yield in agreement with expectations from detector design

The Run-2 MBTS counters were integrated into the DAQ system in Summer 2014

The timing of the MBTS trigger signals was determined with first LHC Run-2 beam splashes (events induced by dumping beam on collimator)

• Timing w.r.t. independent, single-sided ATLAS calorimeter trigger on outgoing splash particles

Operations under beam-splash events indicate that the MBTS are well-timed in and ready for LHC Run-2

