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## ATLAS

*Wednesday 3 May 2023 17:00 (30 minutes)*

The ATLAS detector is one of the two general-purpose experiments at the CERN Large Hadron Collider that discovered the Higgs boson. It performs precision measurements of the properties and interactions of Higgs bosons, top quarks, W and Z bosons, and (nearly) all the other particles in the Standard Model. But how do we design an experimental apparatus to measure particles whose existence is so fleeting that they decay instantly, in the vacuum of the beam pipe, without ever reaching the detector? The talk will be a lightning introduction to both the ATLAS detector and the collaboration of thousands of scientists who built and operate it and sift through the wealth of data it provides.

*Virtual*

**Presenter:** TRIGGER, Isabel (TRIUMF (CA))