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Building ATLAS with LEGO

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A new LEGO model of the ATLAS detector has been developed to aid and enhance educational outreach. Comprising over 21,000 LEGO elements and measuring over 1m in length, this accurate 1/50 scale model depicts ATLAS as it will appear in the High-Luminosity LHC (HL-LHC) era. Cutaway walls clearly reveal every component of the real detector, from the muon chambers down to the ITk Strip Detector and Pixel Sensors at the very heart of ATLAS. A fully modular structure facilitates group building events and the exploration of individual detector components. The accompanying CAD model, parts list, and detailed step-by-step instructions will allow this engaging and accurate LEGO representation to serve as a powerful tool for demystifying particle physics at CERN and inspiring future generations.

Secondary track

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