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The ATLAS Transition Radiation Tracker: from construction to assembly in the ATLAS cavern

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The ATLAS experiment at LHC is now approaching the end of the construction phase. In this presentation, I will focus on the ATLAS-TRT (Transition Radiation Tracker) assembly and its installation in the ATLAS cavern, which covers the period of the last two years. After an overview of the TRT detector, I will show the various tests performed during the "stacking" of the TRT wheels. This concerns mainly the leak tightness of the piping for the cooling and the active gas, the test of the high voltage distribution and the checking of the front-end electronics. Then, I show some results obtained in the combined test of two of the ATLAS trackers (SCT and TRT), and I conclude with the installation of the TRT in the ATLAS cavern.

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