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The global and local support structures of the endcap for the ATLAS Itk-Strips

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The ATLAS experiment will replace completely the inner tracker. The new one will be formed by 2 subsystems made with silicon pixel detectors in the inner region and silicon strip sensors in the outer region. The Silicon strip system will have a barrel region, made by 4 barrels, and two end-caps each made by a cylinder composed by 6 disc. Each of the discs will be made by 32 local support structures, petals, populated with 9 silicon strip sensor modules on each side. The talk will describe the design of the global and local support structures of the endcap of the ATLAS silicon micro strips tracker for the HL-LHC. The talk will discuss the reasons of the current design, the fabrication process and the procedure for the quality checking of the object. The local support structures, in particular, are an example of the externalization of the fabrication process to industry, which will also be discussed.

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