



ID contributo: 49

Tipo: **non specificato**

Characterization of the ATLAS Micromegas quadruplet prototype

A Micromegas quadruplet prototype with an active area of 0.5 m² that adopts the general design foreseen for the upgrade of the innermost forward muon tracking systems (Small Wheels) of the ATLAS detector was constructed at CERN and represents the first example of a Micromegas quadruplet ever built. Basic performance studies carried out with cosmic rays and under X-ray irradiation are presented.

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