

Abstract Submitted
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**Analysis and Selection of Materials for the COMPASS DC56
Drift Chamber Prototypes** MARIE BLATNIK, University of Illinois at Urbana-
Champaign, COMPASS COLLABORATION — The development of two new large
area drift chambers is necessary to replace the current failing straw chambers at
the COMPASS spectrometer at the M2 beam line of the Super Proton Synchrotron
(SPS) at CERN, whose purpose is to measure single transverse spin asymmetries
in pion-induced Drell-Yan productions. In order to build drift chambers that can
operate in the expected high background environment, the materials used in the
detector must be studied and chosen carefully. A prototype detector was designed
and constructed. Results from the detector material studies and the prototype tests
will be presented.

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