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**Construction of Prototype B for the COMPASS Collaboration**<sup>1</sup> JAMES MALLON, Abilene Christian Univ, COMPASS COLLABORATION — While there has been significant progress in the past years of understanding the quark and gluon structure of the nucleon, many important questions remain open; in particular, we have only elementary understanding of the origin of the proton spin. The COMPASS project is a fixed-target nuclear physics experiment at CERN which explores the internal structure of the proton. COMPASS II's polarized Drell-Yan measurements will be exploring the quark angular momentum contribution to the spin of the proton by studying quark-antiquark annihilation. Several drift chambers must be constructed to replace older, faulty straw chambers. Smaller prototype B (PTB), at the University of Illinois at Urbana-Champaign. PTB is 16.5" wide, 72" long, and 3.03" tall, with 66 wires across two separate wire planes. This poster will detail the methods used to fully assemble PTB.

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