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Assembly and Test for the Large GEM detector for pRad experiment at JLab Hall B XINZHAN BAI, KONDO GNANVO, HUONG NGUYEN, VLADIMIR NELYUBIN, University of Virginia, YAN HUANG, Tsinghua University, ANDREW KATZENSTEIN, University of Virginia, YANG ZHANG, Duke University, NILANGA LIYANAGE, University of Virginia, UNIVERSITY OF VIRGINIA COLLABORATION, TSINGHUA UNIVERSITY COLLABORATION, DUKE UNIVERSITY COLLABORATION — pRad (proton charge radius) is a novel magnetic-spectrometer-free ep scattering experiment designed to measure the proton charge radius at a very low Q^2 region ($10^{-4} \sim 10^{-2}$ $(GeV/c)^2$) at Jefferson Lab Hall B, it needs a high-resolution position detector. We will report the fabrication and test for world-largest GEM detector designed and built for pRad experiment. In this report, we will talk about the assembly process and the testing results for pRad GEM chamber.

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