Towards a Resolution of the Proton Radius Puzzle

CARL CARLSON, William & Mary

We shall discuss the newest results on the proton charge radius, plus some history of the proton radius puzzle, giving an overall perspective and looking the whole suite of experimental results, with their interpretations and implications. We will also talk about controversies involving data reanalysis, whether the corresponding deuteron measurements indicate a lingering problem, and ask whether two photon exchange corrections are a barrier to the future improvements in accuracy of proton or light nucleus radius measurements.