

## COLLOQUIA 2015-2016

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**Aula 102 "L. Giulotto", ore 16.00**

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# The Proton Charge Radius Puzzle

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**Abstract:** There is a proton charge radius puzzle because the proton charge radius appears different when measured with electrons than when measured with muons. Explanations broadly fit into two categories. "Ordinary" explanations include problems with the extrapolations or theoretical corrections involved in the measurements, and "exotic" explanations include such beyond the standard model ideas as a breakdown of electron-muon universality. We will discuss something of how the measurements are done, and discuss possible explanations in both the "ordinary" and "exotic" categories.

