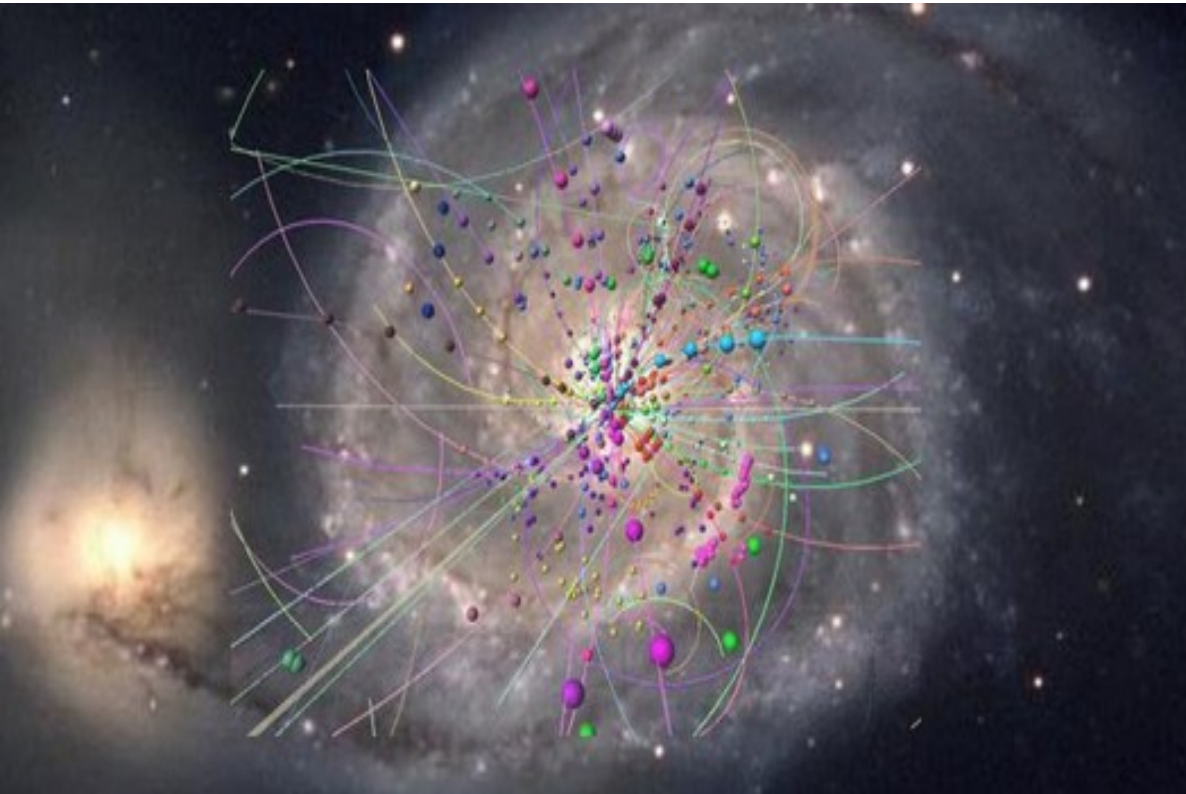




Reporte Semanal ACORDE MEETING



*Emma González Hernández **

*Dr. Arturo Fernández Téllez **

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* FCFM-BUAP

Junio 11, 2016

Study of Monte Carlo

- ♦ **1 muon**
- ♦ **2 tracks**
- ♦ **1,416,549 events**
- ♦ **Range of momentum: 5-500 GeV/c**
- ♦ **Within $\theta < 20^\circ$**
- ♦ **Fiducial area of $1.5 \times 1.5 \text{m}^2$**
- ♦ **435cm above the point of interaction**
- ♦ **In a random plane**

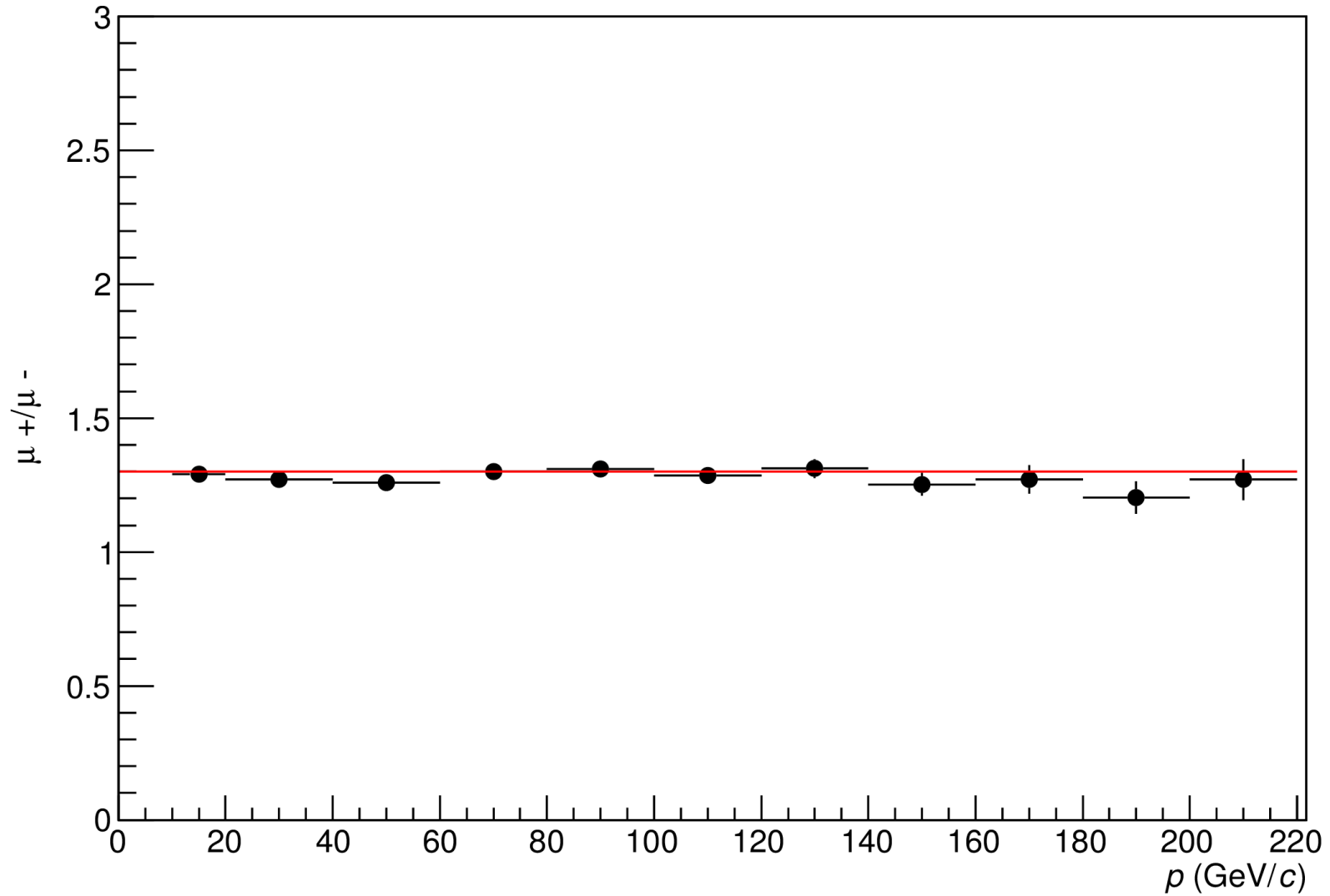
Data

all periods

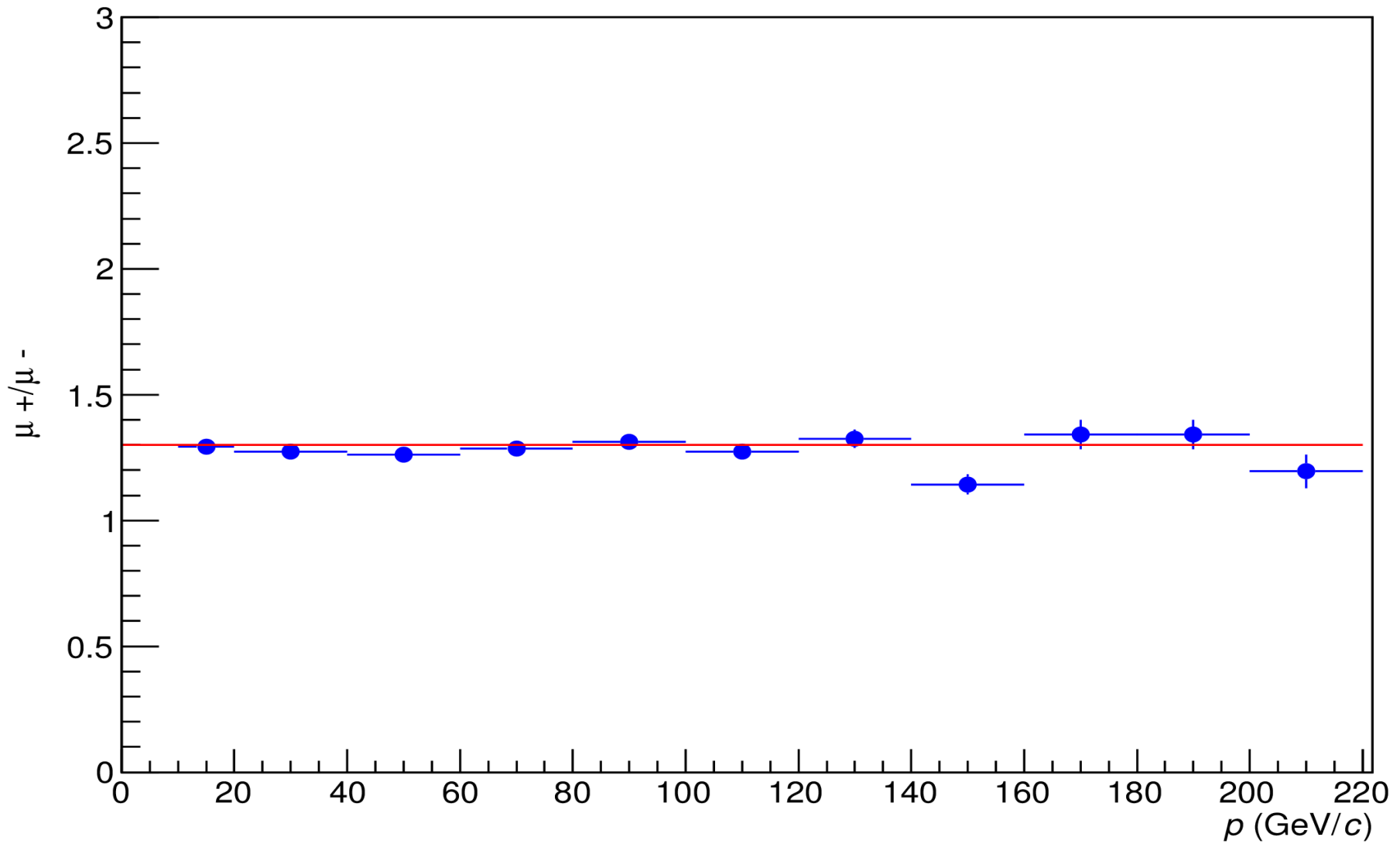
- ♦ LHC15a_Bminus.root
- ♦ LHC15a_Bplus.root
- ♦ LHC15c_Bplus_1.root
- ♦ LHC15c_Bplus_2.root
- ♦ LHC15d_Bminus.root
- ♦ LHC15d_Bplus.root
- ♦ LHC15e_Bplus.root
- ♦ LHC15f_Bminus.root
- ♦ LHC15f_Bplus.root
- ♦ LHC15g_Bplus.root
- ♦ LHC15h_Bplus.root
- ♦ LHC15i_Bplus.root
- ♦ LHC15j_Bplus.root
- ♦ LHC15k_Bminus.root

- ♦ **1 muon**
- ♦ **2 tracks**
- ♦ **Range of momentum: 0-500 GeV/c**
- ♦ **Within $\theta < 20^\circ$**
- ♦ **Fiducial area of $1.5 \times 1.5 \text{m}^2$**

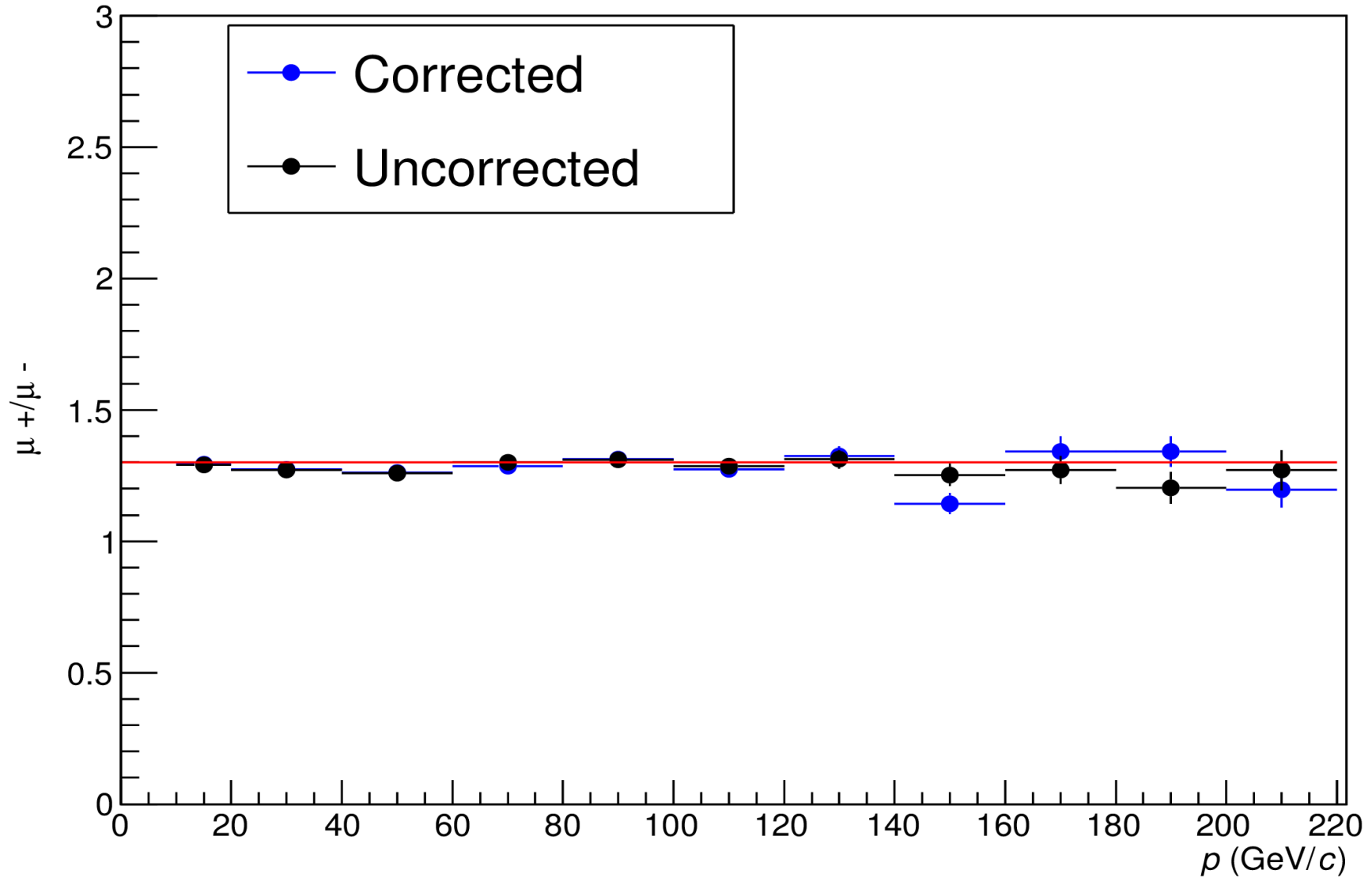
Uncorrected muon charged ratio



Corrected muon charged ratio

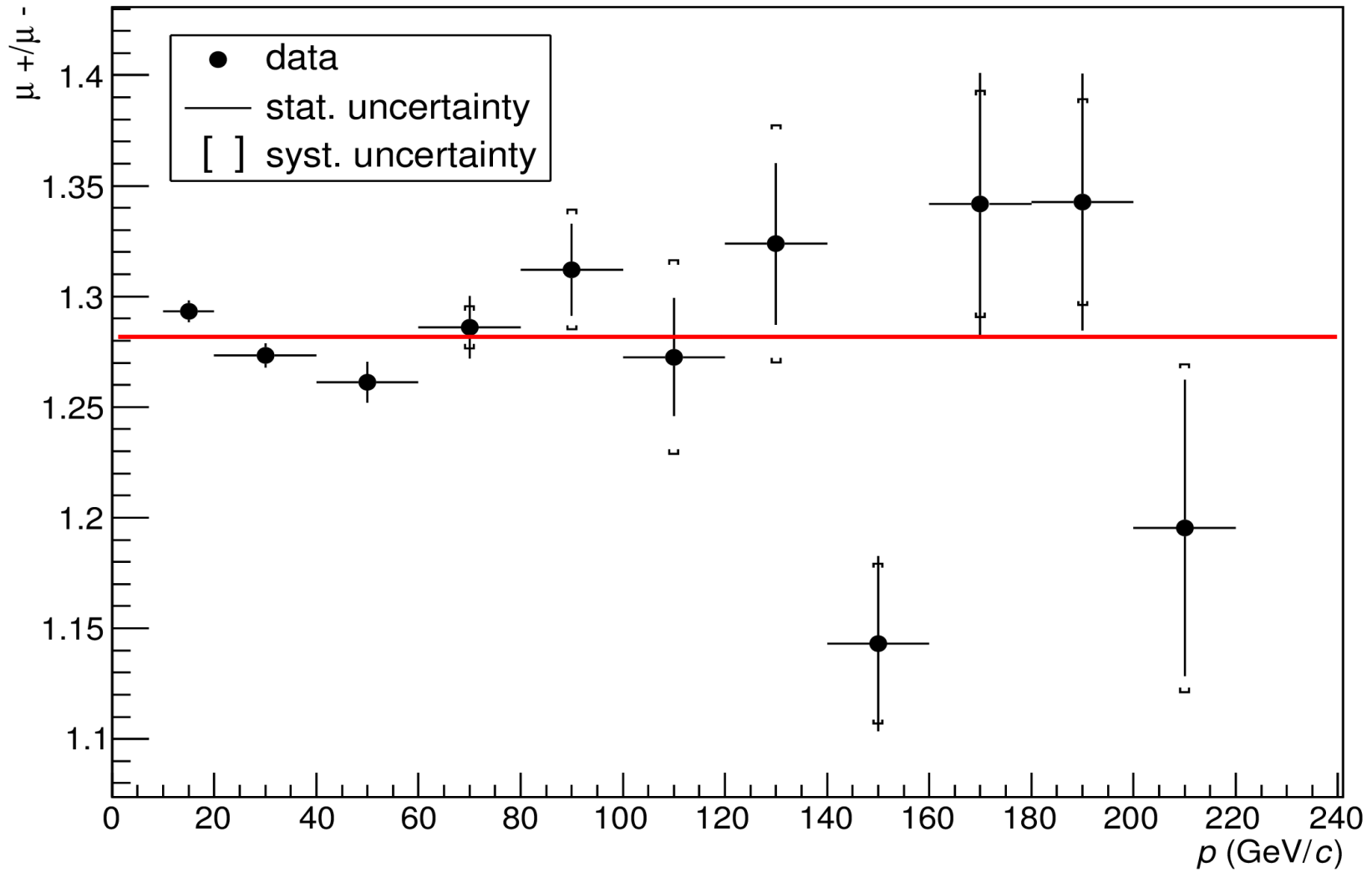


Corrected and Uncorrected muon charged ratio



Range of momentum (GeV/c)	R	Stat.	Syst.
10-20	1.293	0.004	0.001
20-40	1.273	0.005	0.0004
40-60	1.261	0.009	0.001
60-80	1.286	0.014	0.009
80-100	1.312	0.02	0.027
100-120	1.272	0.026	0.043
120-140	1.323	0.036	0.053
140-160	1.143	0.039	0.036
160-180	1.341	0.059	0.005
180-200	1.342	0.058	0.046
200-220	1.195	0.067	0.074
average	1.276	0.03	0.026

Cosmic charge ratio ALICE



Cosmic charge ratio ALICE

