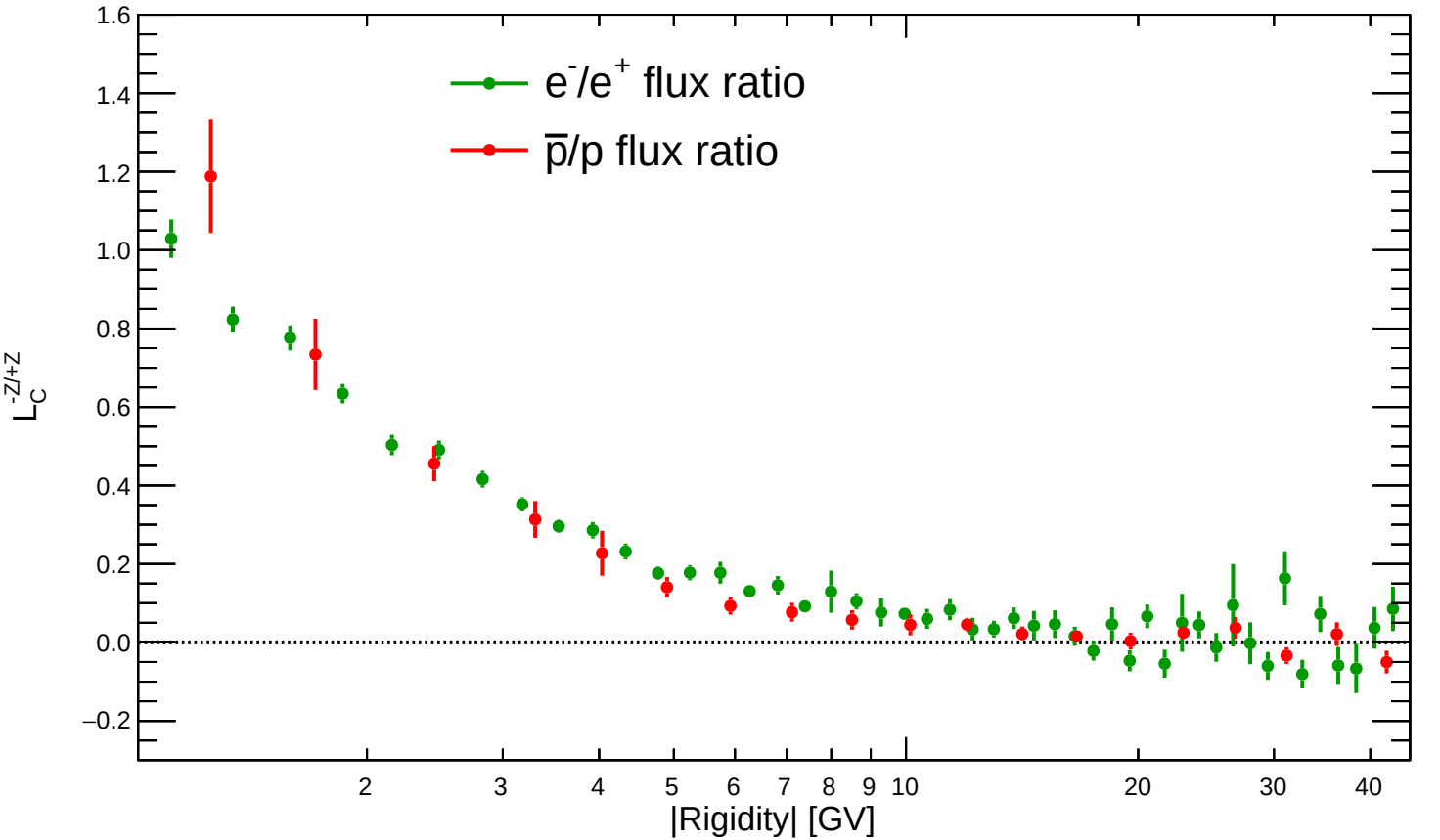
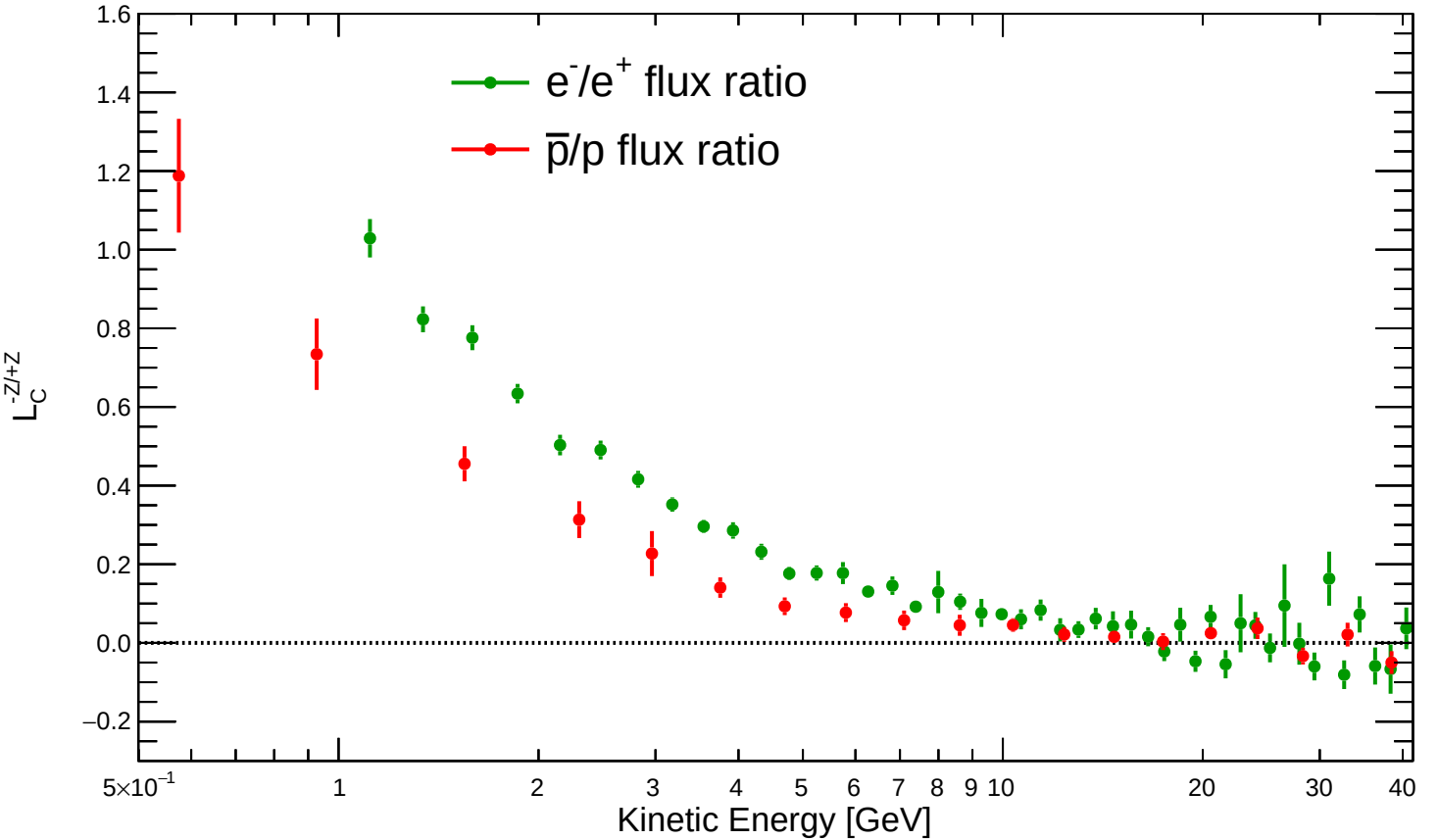
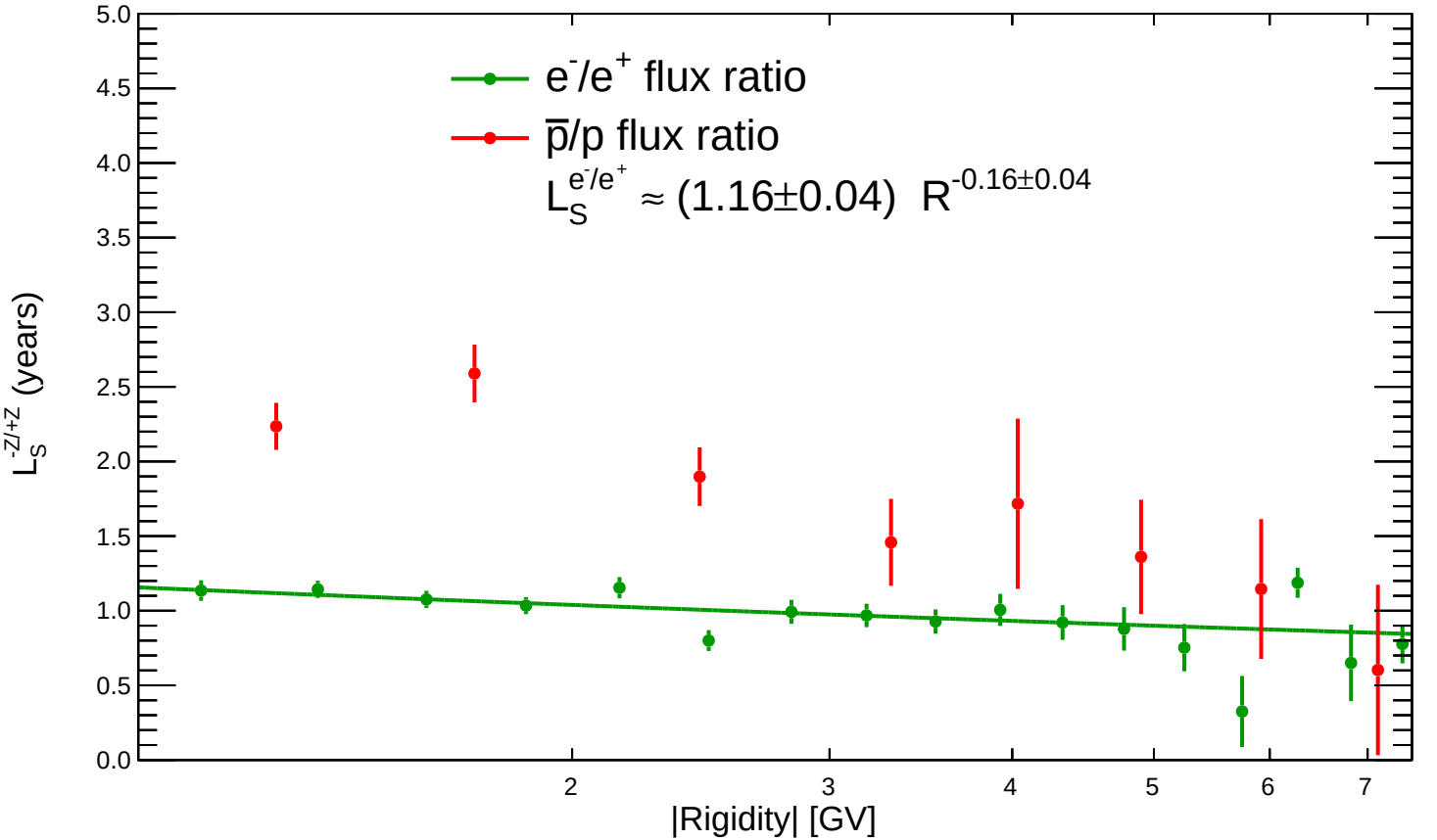
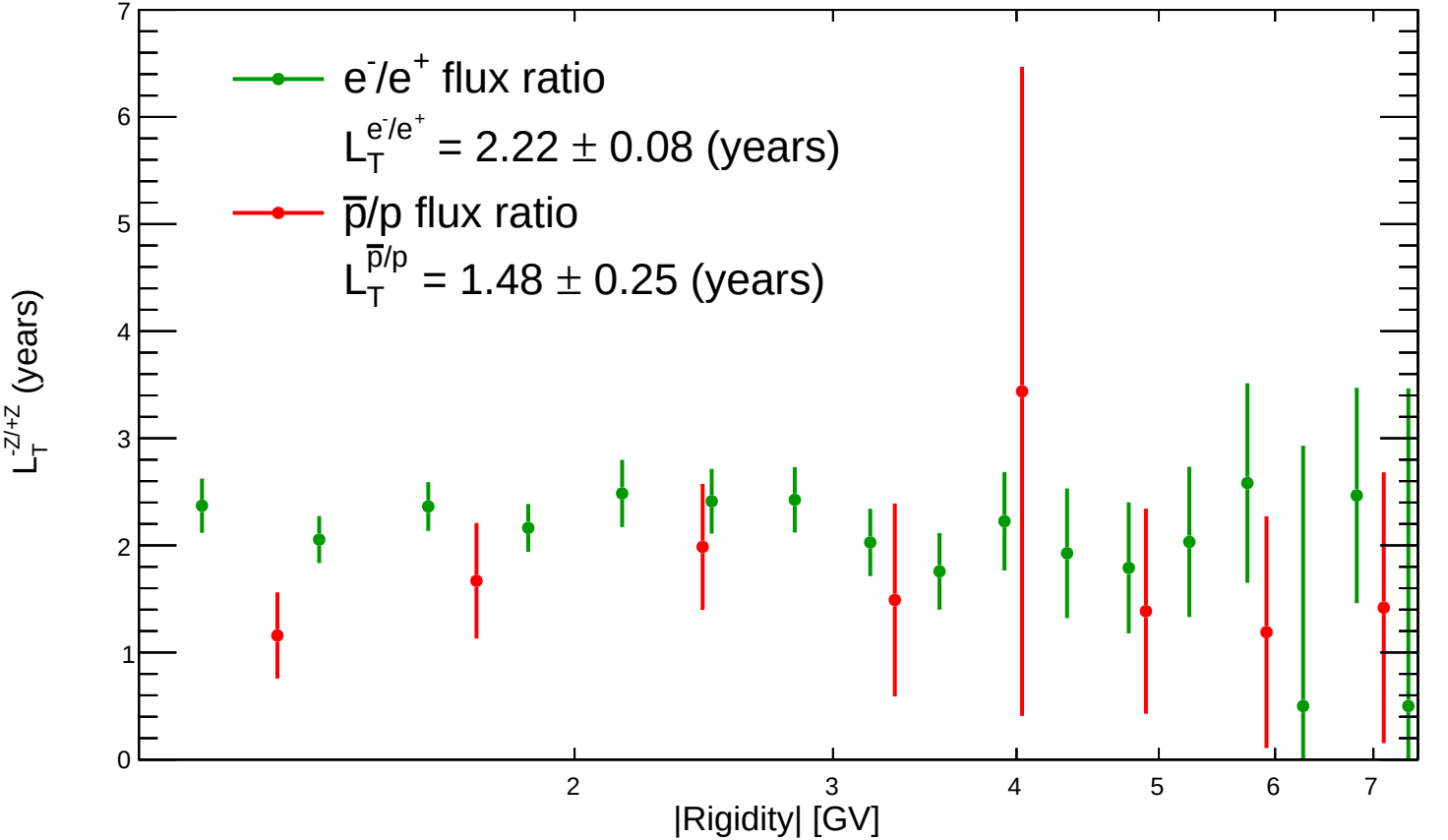
<< START >> apflux_phy3M_np

Logistic Function

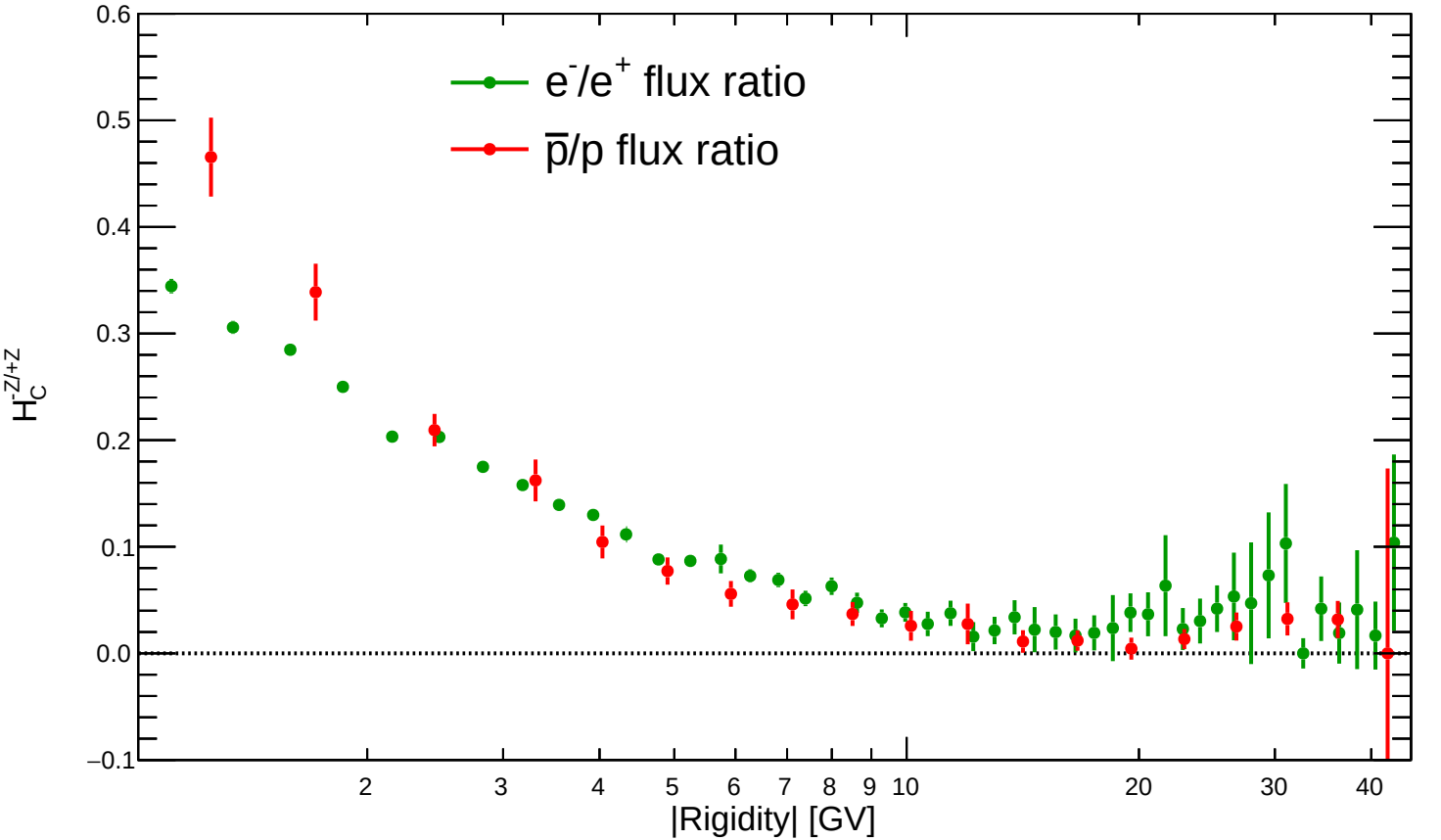

e⁻/e⁺ flux ratio
p̄/p flux ratio
L_C^{-Z/+Z}
|Rigidity| [GV]
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
2
3
4
5
6
7
8
9
10
20
30
40

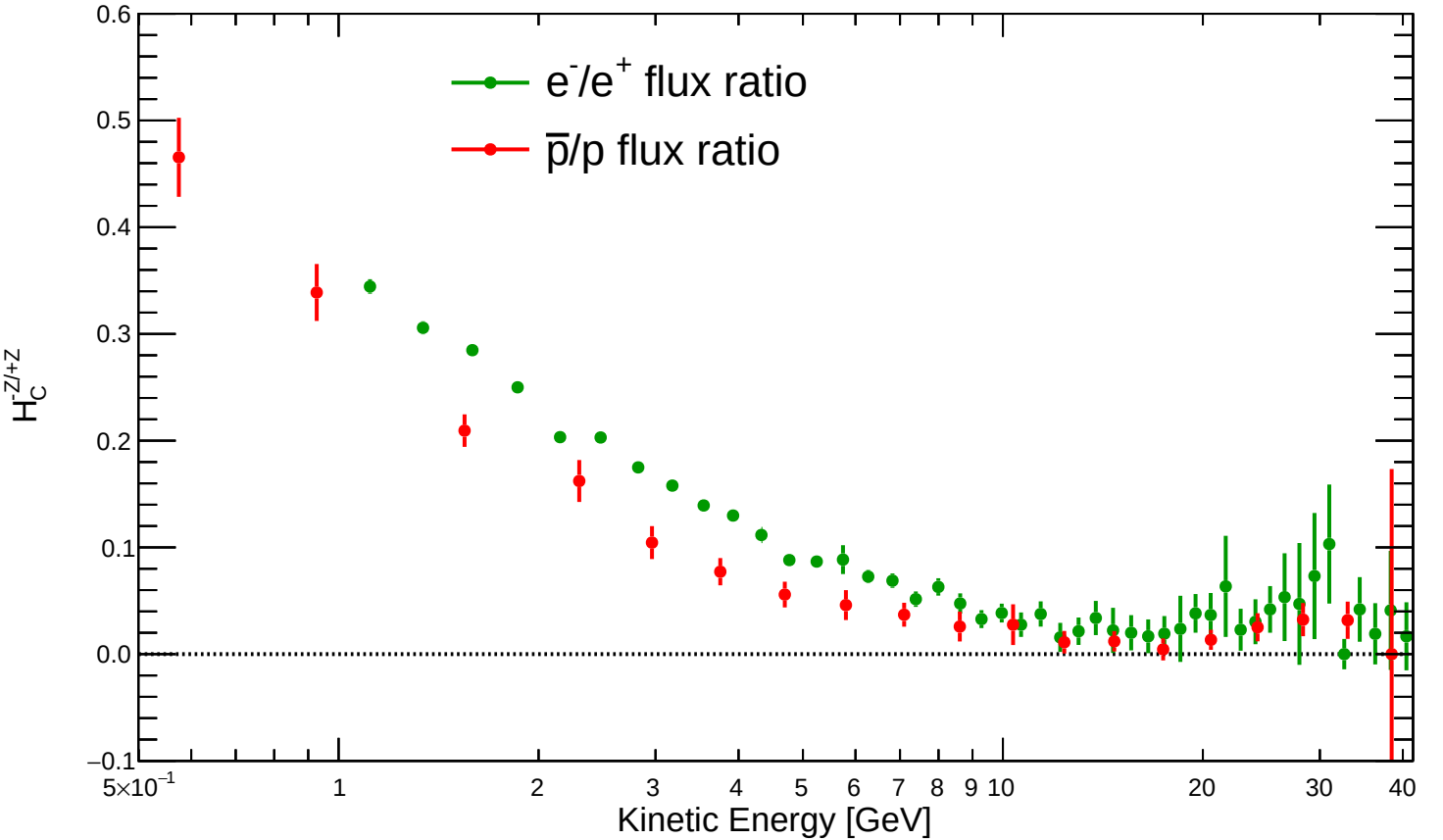

e⁻/e⁺ flux ratio
p̄/p flux ratio
L_C^{-Z/+Z}
Kinetic Energy [GeV]
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
5×10⁻¹
1
2
3
4
5
6
7
8
9
10
20
30
40

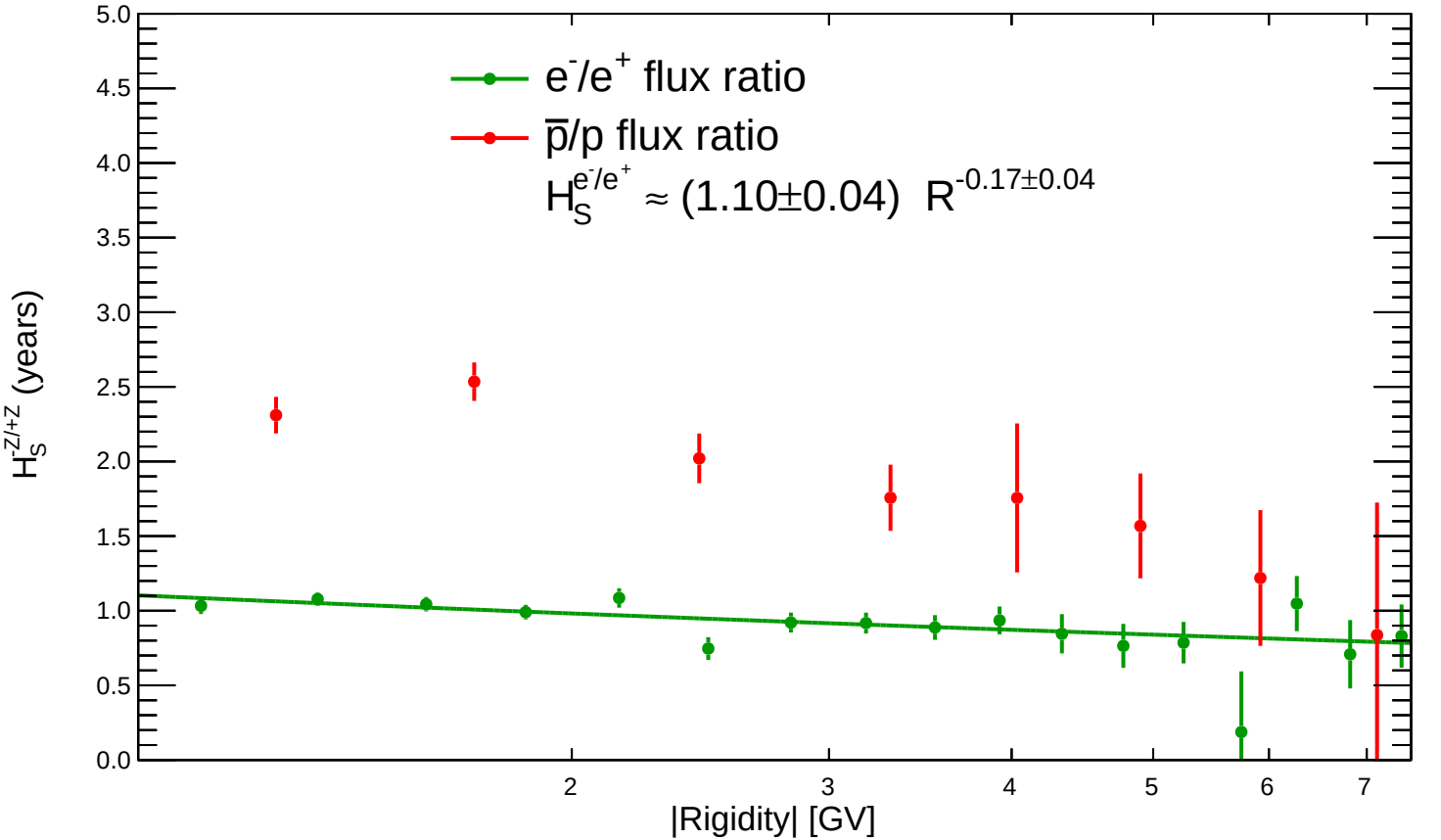

e⁻/e⁺ flux ratio
p̄/p flux ratio
L_S^{e⁻/e⁺} ≈ (1.16±0.04) R^{-0.16±0.04}
L_S^{-Z/+Z} (years)
|Rigidity| [GV]
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
2
3
4
5
6
7

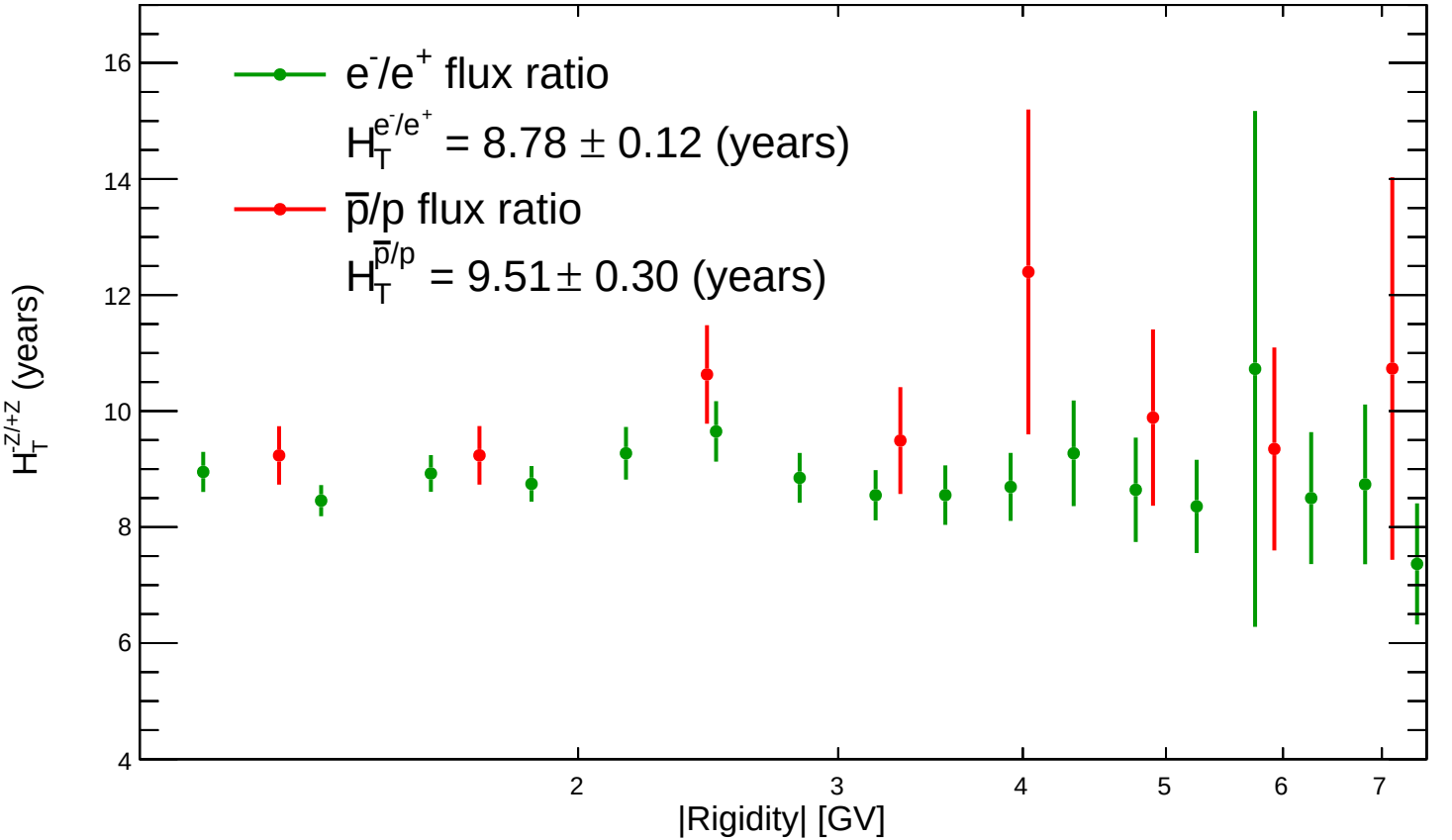

e-/e+ flux ratio
L_T^{e-/e+} = 2.22 ± 0.08 (years)
p̄/p flux ratio
L_T^{p̄/p} = 1.48 ± 0.25 (years)
L_T^{-Z/+Z} (years)
|Rigidity| [GV]
0
1
2
3
4
5
6
7

Harmonic Function

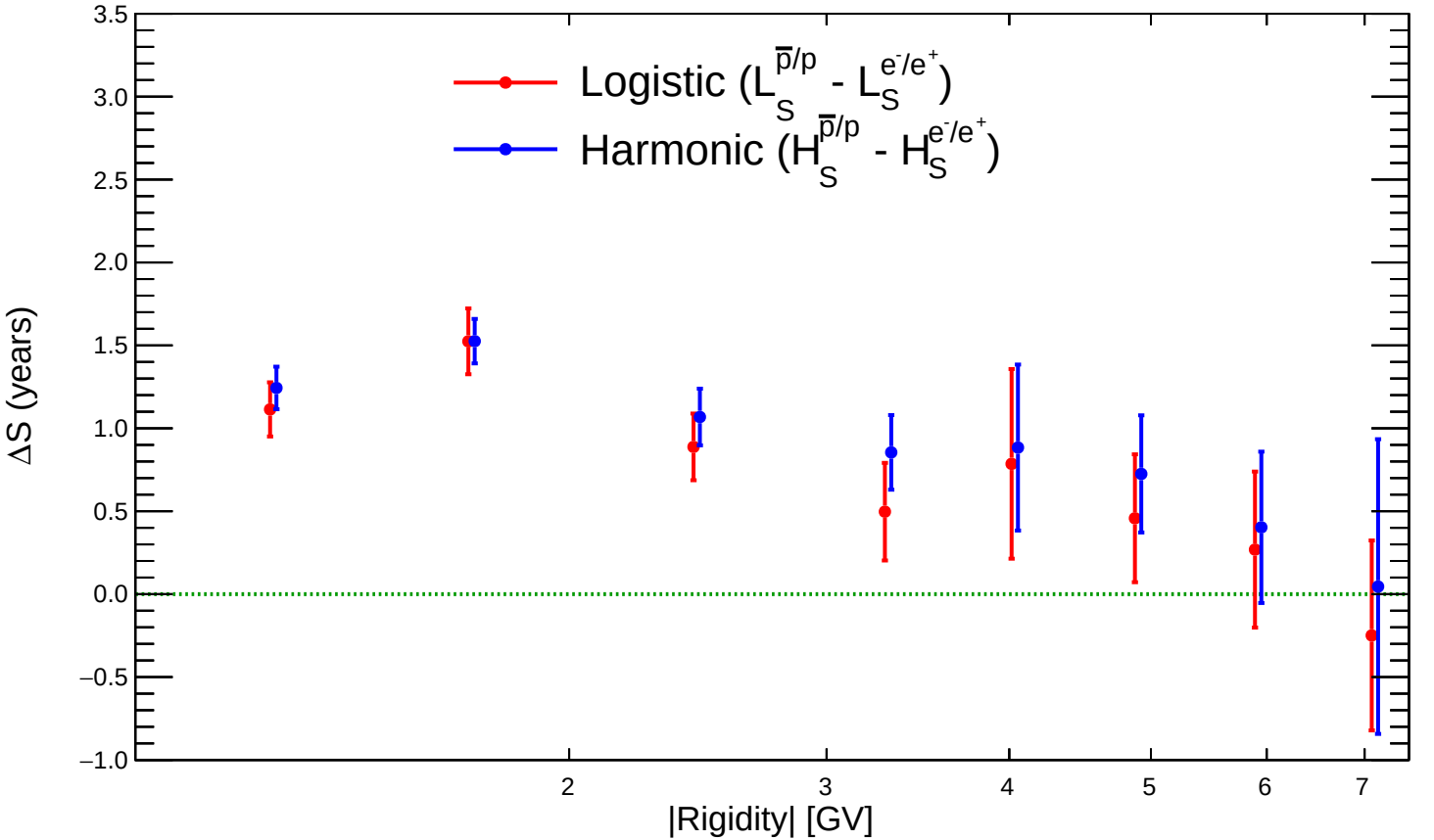

e⁻/e⁺ flux ratio
p̄/p flux ratio
H_C^{-Z/+Z}
|Rigidity| [GV]
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
2
3
4
5
6
7
8
9
10
20
30
40


e⁻/e⁺ flux ratio
p̄/p flux ratio
$H_C^{-Z/+Z}$
Kinetic Energy [GeV]
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
5×10⁻¹
1
2
3
4
5
6
7
8
9
10
20
30
40


e⁻/e⁺ flux ratio
p̄/p flux ratio
$H_S^{e^-/e^+} \approx (1.10 \pm 0.04)\ R^{-0.17 \pm 0.04}$
$H_S^{-Z/+Z}$ (years)
|Rigidity| [GV]
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
2
3
4
5
6
7


e-/e+ flux ratio
H_T^{e-/e+} = 8.78 ± 0.12 (years)
p̄/p flux ratio
H_T^{p̄/p} = 9.51 ± 0.30 (years)
H_T^{-Z/+Z} (years)
|Rigidity| [GV]
16
14
12
10
8
6
4
2
3
4
5
6
7

Logistic & Harmonic


Logistic ($L_S^{\bar{p}/p}$ - $L_S^{e^-/e^+}$)
Harmonic ($H_S^{\bar{p}/p}$ - $H_S^{e^-/e^+}$)
ΔS (years)
|Rigidity| [GV]
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
2
3
4
5
6
7

<< END >> apflux_phy3M_np