

Relatório de Mestrado v5

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1 Valores dos parâmetros minimizados

Table 1: Parâmetros usando o modelo de massa dinâmica $m_{log}(q^2)$ obtidos via iminuit:

Parâmetro	Ensemble A - iminuit (paper)	Ensemble T - iminuit (paper)
m_g (GeV)	0.334 ± 0.004 (0.356 ± 0.025)	0.363 ± 0.004 (0.380 ± 0.023)
ϵ	0.0613 ± 0.0022 (0.0753 ± 0.0024)	0.0790 ± 0.0018 (0.0892 ± 0.0027)
a_1 (GeV $^{-2}$)	1.604 ± 0.045 (1.373 ± 0.017)	1.635 ± 0.022 (1.491 ± 0.019)
a_2 (GeV $^{-4}$)	3.043 ± 0.300 (2.50 ± 0.53)	3.278 ± 0.095 (2.77 ± 0.60)
ν	108	328
χ^2/ν	0.223 (0.71)	0.289 (0.67)

Table 2: Parâmetros usando o modelo de massa dinâmica $m_{pl}(q^2)$ obtidos via iminuit:

Parâmetro	Ensemble A - iminuit (paper)	Ensemble T - iminuit (paper)
m_g (GeV)	0.389 ± 0.005 (0.421 ± 0.030)	0.445 ± 0.003 (0.447 ± 0.026)
ϵ	0.0616 ± 0.0022 (0.0753 ± 0.0025)	0.0872 ± 0.0012 (0.0892 ± 0.0027)
a_1 (GeV $^{-2}$)	1.495 ± 0.048 (1.517 ± 0.019)	1.645 ± 0.005 (1.689 ± 0.021)
a_2 (GeV $^{-4}$)	2.162 ± 0.296 (2.05 ± 0.45)	2.210 ± 0.010 (1.70 ± 0.51)
ν	108	328
χ^2/ν	0.240 (0.64)	0.567 (0.90)

2 Secao de choque Total

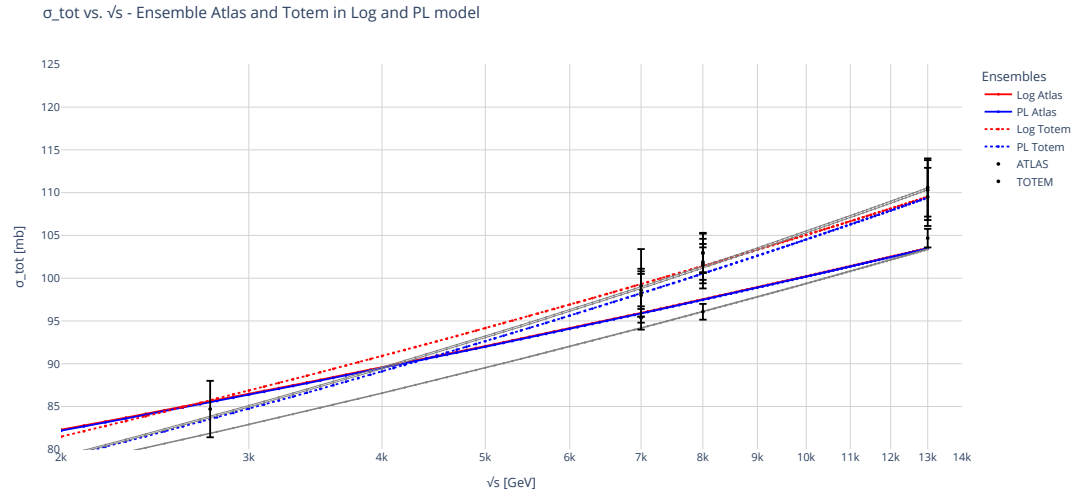


Figure 1: Secao de choque total minimizado e, em cinza, com os parâmetros do paper

3 Seção de choque diferencial

3.1 Para o ensemble ATLAS

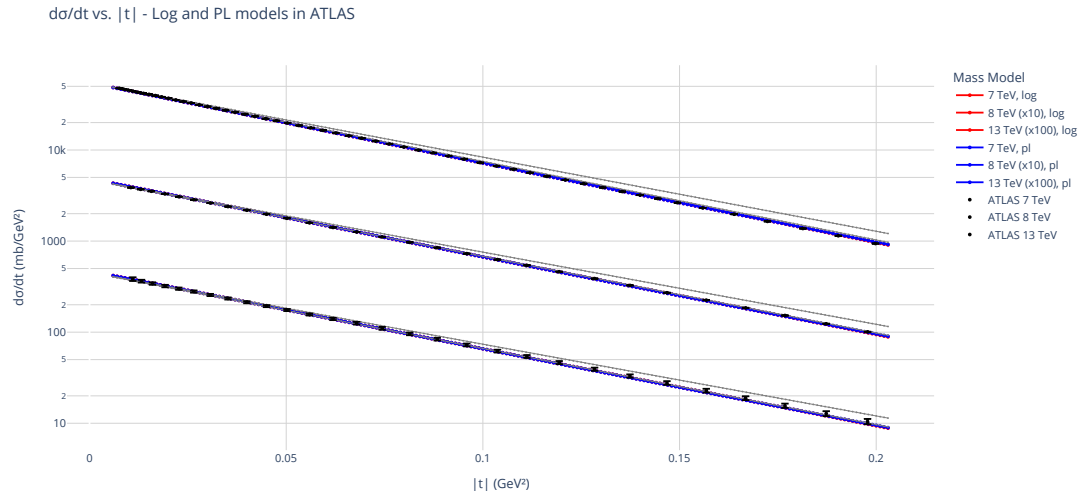


Figure 2: $d\sigma/dt$ minimizado para ATLAS e, em cinza, com os parâmetros do paper

3.2 Para o ensemble TOTEM

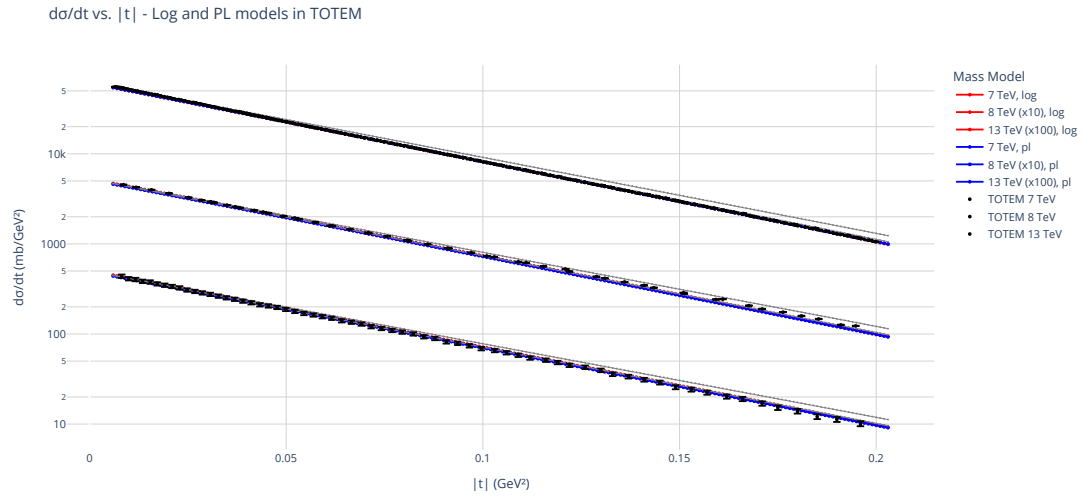


Figure 3: $d\sigma/dt$ minimizado para TOTEM e, em cinza, com os parâmetros do paper