

Does p-p soft scattering attain saturation at the TeV-scale?

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The properties of p-p scattering amplitudes at the TeV-scale and above are studied, so as to check their asymptotic behavior and determine the rate at which they approach the bounds implied by s and t channel unitarity saturation. I shall examine the available cross sections at exceedingly high energies, as well as the corresponding behavior of the coupled models aiming to reproduce the values of this data. My conclusion is that p-p black body saturation is not attained at the TeV-scale. Moreover, I do not expect that the saturation bounds will be attained at energies that can be reached.

Summary

s and t unitarity saturation in p-p scattering is assessed.

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