

Bungee Jumping Graphs

Leo Milligan

February 25, 2025

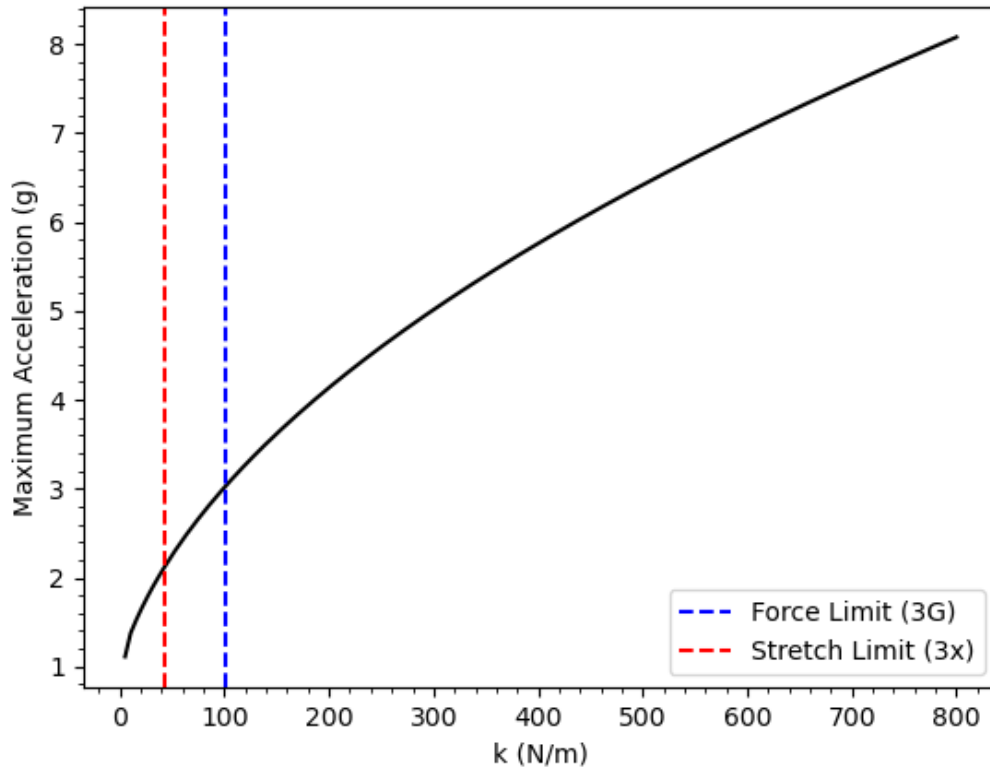


Figure 1: The black line shows the maximum acceleration a jumper of mass 75 kg experiences while using a 30 m long cord with different k values. The blue and red lines mark the k value which resulted in the jumper experiencing over 3Gs of force and the rope stretching to over 3 times its initial length, respectively.

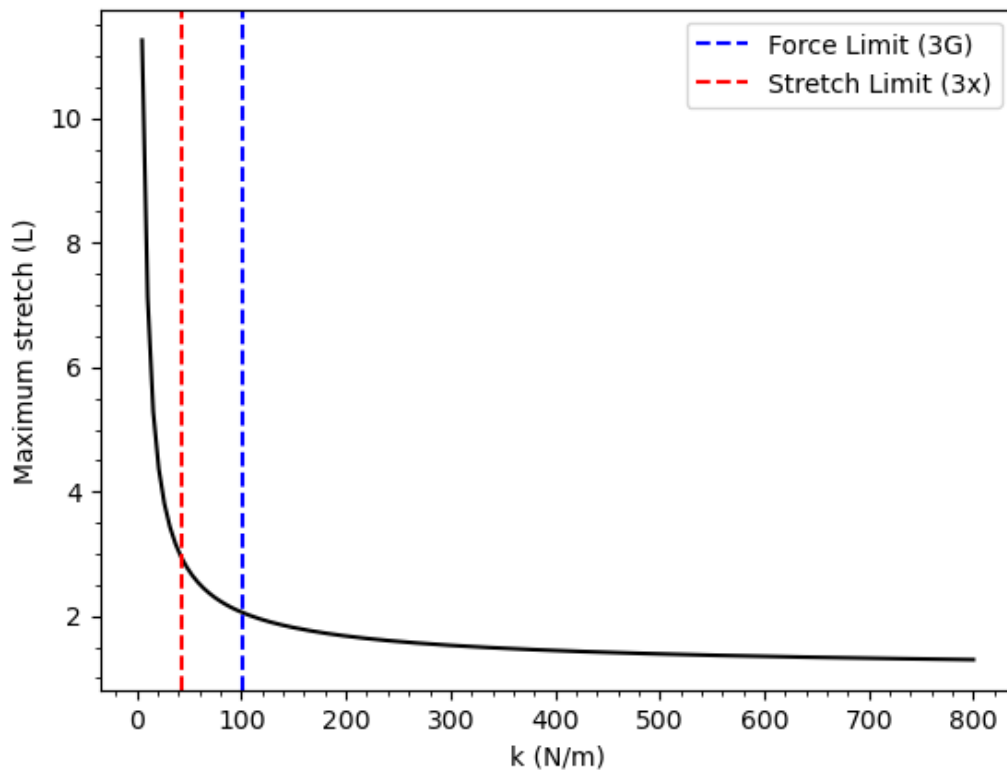


Figure 2: The black line shows the maximum position a 75 *kg* jumper while using a 30 *m* long cord with different k values. The blue and red lines mark the k value which resulted in the jumper experiencing over 3Gs of force and the rope stretching to over 3 times its initial length, respectively.