Answer on Question #79827, Physics / Mechanics | Relativity

<u>Question</u> A ball mass m attach to a wire lenght l is rotate in a horizontal circle area of a wire is a and itch breaking straight is s maximum anguar velocity is

Solution:

Centrifugal force is equal to elastic one, respectively  $m\omega^2 l \le as$ , then  $\omega_{\text{max}} = \sqrt{\frac{as}{ml}}$ .

The answer:

$$\omega_{\rm max} = \sqrt{\frac{as}{ml}}$$

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