

Abstract Submitted  
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**How thick is human hair?**<sup>1</sup> EVA STANTON, TRAVEN WOOD,  
GABRIELA POPA, Ohio University — In this experiment, we measured the thick-  
ness of human hair using two techniques. When the light from a laser beam falls on  
a single strand of hair, creates a diffraction pattern that we projected on a screen.  
Using the diffraction pattern, we calculated the width of the strand of hair. In the  
second method, we used a microscope connected to a computer. We analyzed differ-  
ent types of hair, including colored and not colored ones. We also measured rabbit  
and cat hair. We will present the analysis and precision of each method.

<sup>1</sup>How thick is my hair?

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