

SEMINAR IN PHYSICS

Friday, March 2, 2018
3:30-4:25 - Ross 0220

· Refreshments ·

Terminal Velocity of a Shuttlecock in Vertical Fall

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When we solve physics problems involving free fall, often we are told to ignore air resistance and to assume the acceleration is constant. In the real world, because of air resistance, objects do not fall indefinitely with constant acceleration. The object encounters a balance of forces so that the terminal velocity will be reached when the amount of air resistance force is equal to the gravitational force.

In a free-fall experiment using a badminton shuttlecock, we found that the model agrees with the experimental data.