

Abstract Submitted
for the MAR11 Meeting of
The American Physical Society

Statistical evidence of predation by theropods SCOTT LEE, University of Toledo — Dinosaurs hold a great fascination for everyone and provide an interesting venue for teaching many elementary concepts of kinematics. Dinosaur trackways provide interesting information about the locomotion of these extinct animals. A statistical analysis of the known trackways made by theropods (carnivorous dinosaurs) shows that they usually moved by walking with an average speed of 2.4 ± 1.5 m/s. Fast running, determined by the relative stride length greater than 3, is observed in about 10% of the trackways, with speeds on the order of 10 m/s. These trackways are believed to have been formed during predation.

Scott Lee
Un. of Toledo

Date submitted: 12 Nov 2010

Electronic form version 1.4