

Abstract Submitted  
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**Dinosaur kinematics: A statistical analysis provides evidence of predation by theropods** SCOTT LEE, University of Toledo — 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  $2.4 \pm 1.5$  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.

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