Abstract Submitted
for the APR07 Meeting of
The American Physical Society

Searching for Long-lived Particle Signatures at Hadron Colliders
TODD ADAMS, Florida State University — Several extensions of the Standard Model include new, long-lived particles that can decay after travelling centimeters to meters. Two of these are R-parity violating supersymmetry and "hidden valley" models. In hadron collider experiments, the decays of such particle create unique signals such detached vertices or kinks in charged particle tracks. This talk discusses some of the experimental challenges of observing decays of long-lived particles in collider detectors such as at the Tevatron or LHC.

Todd Adams
Florida State University

Date submitted: 12 Jan 2007 Electronic form version 1.4