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**Factors Affecting Separation of Isobars/Isotopes using
Time-of-Flight Measurements at Energies Below 10 MeV/amu¹**

D. SHAPIRA, T. A. LEWIS, P. E. MUELLER, Physics Division, Oak Ridge National Laboratory — Detailed studies assessed the factors contributing to the resolution of near-mass isobars/isotopes, using a technique combining absorbers/energy degraders with time-of-flight measurements. Detector resolution, beam energy spread, energy and angular spread from straggling in the absorber as well as inhomogeneities in absorber thickness were all examined. Several possible enhancements to this method's efficiency and resolving power will be discussed.

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Prefer Oral Session
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