

Abstract Submitted  
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**Flyin' Ions: Simulated and Physical Testing of a Time of Flight Mass Spectrometer** NICHOLAS MORRILL, Brigham Young University, TODD KING, STEPHANIE GETTY, MARY LI, STEVEN FENG, NICK COSTEN, LARRY HESS, VINCENT HOLMES, DAN STEWART, GREG HIDROBO, CLE HUNT, INGE TEN KATE, STEVE CAGIANO, WILL BRINKERHOFF, DANNY GLAVIN, PAUL MAHAFFY, NASA, NASA GSFC TEAM — Development of a miniature time-of-flight mass spectrometer for NASA was aided by computational simulation via SIMION 8.0 ©. A novel electron source using carbon nanotubes for generation of ions was implemented. Over all design was compatible with micro-fabrication techniques.

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