An Abstract Entry *for* ASMS 1997

Title:
Using Non-linear Statistical Methods with Laboratory Kinetic Data

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NO - This material does not appear in other abstracts I have submitted.

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Keywords:
Reaction, Ion/Molecule
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Presentation Session Preferences:
First Choice Type: **Poster**
First Choice Session: **Ion-Molecule Reactions**
Second Choice: **Computer Applications**

Abstract:
This poster will demonstrate the usefulness of standard non-linear statistical analysis on ICR and SIFT kinetic data. The specific systems used in the demonstration are the isotopic and change transfer reactions in the systems of H_2O^+/D_2O, H_3O^+/D_2O, **and other permutations. Actual uncertainty limits are placed on the reaction rate coefficients and branching ratios. Error of determination increases from primary reactions to secondary reactions, etc.**