

## **Mass Spectrometry of UF<sub>6</sub> in a Micro Ion Trap**

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We have been exploring the miniaturization of ion trap mass spectrometry with cylindrical ion traps as small as 0.5 mm. One application we are addressing is the isotopic analysis of UF<sub>6</sub>. Besides the usual problems of mass resolution and instrumental sensitivity, the chemical reactivity of UF<sub>6</sub> adds additional restrictions on construction materials, ionization sources, and detectors. Progress in these areas will be reported.

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