## SYNTHESIS AND CHARACTERIZATION OF XeOTeF5+Sb(OTeF5)6-

A. Paprica, J. C. P. Sanders and G. J. Schrobilgen Department of Chemistry, McMaster University, Hamilton, Ontario L8S 4M1 (Canada)

The XeOTeF<sub>5</sub><sup>+</sup> cation has been characterized previously as the  $AsF_6^-$  and  $Sb_2F_{11}^-$  salts, however investigation of the chemistry of XeOTeF<sub>5</sub><sup>+</sup> has been limited by the insolubility of these two salts in inert solvents.

The new salt, XeOTeF<sub>5</sub>\*Sb(OTeF<sub>5</sub>)<sub>6</sub><sup>-</sup>, has been synthesized and represents the first example of a salt containing both an OTeF<sub>5</sub> substituted cation and anion. The compound is a stable pale-orange solid and has been characterized by <sup>129</sup>Xe, <sup>121</sup>Sb and <sup>19</sup>F NMR and Raman spectroscopy.

The high solubility of XeOTeF<sub>5</sub>\*Sb(OTeF<sub>5</sub>)<sub>5</sub><sup>-</sup> in inert low-polarity solvents affords new possibilities for investigating the chemistry of the XeOTeF<sub>5</sub>\* cation. The Lewis acid properties of XeOTeF<sub>5</sub>\* will be described.

**I9**