

P-6

# REACTIONS BETWEEN HYDRAZINIUM OR AMMONIUM FLUOROMETALATES AND XENON FLUORIDES

Branko Družina\* and Boris Žemva

'Jožef Stefan' Institute, 'Edvard Kardelj' University Ljubljana, 61000 Ljubljana (Yugoslavia)

In a systematic study of the reactions of xenon fluorides, the following systems were investigated:

- a) Reactions between ammonium fluorometalates (e.g.  $\text{NH}_4\text{NiF}_3$ ,  $\text{NH}_4\text{CdF}_3$ ,  $\text{NH}_4\text{SnF}_3$ ) and xenon fluorides,
- b) Reactions between hydrazinium fluorometalates (e.g.  $\text{N}_2\text{H}_5\text{CuF}_3$ ,  $\text{N}_2\text{H}_5\text{ZnF}_3$ ,  $\text{N}_2\text{H}_5\text{CdF}_3$ ,  $\text{N}_2\text{H}_6\text{SnF}_4$ ) and xenon fluorides,
- c) Reactions between binary fluorides (e.g.  $\text{SnF}_2$ ,  $\text{PbF}_2$ ,  $\text{BiF}_3$ ) and xenon fluorides.

During this study some xenon(II) and xenon(VI) fluorometalates were isolated and characterized (e.g.  $3\text{XeF}_2 \cdot 4\text{SnF}_4$ ,  $\text{XeF}_2 \cdot 2\text{SnF}_4$ ,  $\text{XeF}_6 \cdot \text{BiF}_3$ ).