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HEAVY ELEMENTS IN UNCOMMON OXIDATION STATES AND
BONDING

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We will discuss the structures of BrF_6^- and IF_6^- , BrF_4^- , $\text{I}_3\text{F}_{16}^-$, $\text{HI}_2\text{F}_{12}^-$ as results of crystal structure investigations.

Also we will report on structures of rhenium, iron a.o. in uncommon oxidation states and geometries. The question will be discussed if Cs can exist in higher oxidation states than +1, and first evidence will be reported.