^{218}At

In the 1939 paper "Spectres de l'emission propre ondulatoire du radon et de ses dérivés. Raies attribuables à l'élément 85" Hulubei and Cauchois from the University of Paris (1939Hu01) reported the observation of three X-rays which were close to the predicted values for eka-iodine (astatine). These X-rays were observed from a ^{222}Rn sample and the astatine lines could only originate from ^{218}At populated either by α and β-decay through ^{218}Po or by β and α-decay through ^{222}Fr. "Ces coincidences font penser que l'élément 85 est peut-être présent parmi les produits de désintégration du radon" [These coincidences suggest that the element 85 may be present among the radon decay products.]

The assignment was changed (2015Th03) from the original compilation (2013Fr09) which credited a later publication by Karlik and Bernert (1943Ka04) with the discovery of ^{218}At.

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