

²¹¹Pb

Debierne published the observation of a new activity (²¹¹Pb) in the actinium chain in the 1904 paper titled “Sur l’émanation de l’actinium” (1904De01). A new activity was observed in Paris following the decay of actinium emanation (²¹⁹Rn). “J’ai également déterminé la loi de décroissance de la radioactivité induite provoquée par l’émanation de l’actinium en mesurant dans le même appareil l’activité induite des condensateurs, depuis le moment où l’émanation a cessé d’agir: La décroissance est régulière, elle est de la moitié en 40 minutes.” [I also found the radioactive decay law caused by the actinium emanation by measuring the induced activity in the same setup, from the moment the emanation has ceased to act: The decay is regular, it reaches its half value in 40 minutes.] Rutherford reproduced the observation by Debierne and named it actinium A (1905Ru03). It was later reclassified as AcB.

Adapted from reference (2013Fr04)

- 1904De01 A. Debierne, *Compt. Rend.* **138**, 411 (1904).
1905Ru03 E. Rutherford, *Philos. Trans. R. Soc.* **204**, 169 (1905).
2013Fr04 C. Fry and M. Thoennessen, *At. Data Nucl. Data Tables* **99**, 365 (2013).

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