

## <sup>185</sup>Au

<sup>185</sup>Au was first observed by Albouy et al. in 1960 with spallation reactions: “Nouveaux isotopes de période courte obtenus par spallation de l’or” (1960A120). The gold targets were bombarded with 155 MeV protons from the Orsay synchro-cyclotron. “L’intensité obtenue pour les masses 187, 186 et 185 rend peu précise la détermination des énergies des raies  $\gamma$  correspondant aux masses 187 et 186 et ne nous a pas permis d’identifier des raies  $\gamma$  pour la chaîne de masses 185.” [The intensity obtained for the masses 187, 186 and 185 makes a precise determination of the  $\gamma$ -ray energies corresponding to masses 187 and 186 possible but has not allowed us to identify  $\gamma$ -rays for the mass of 185.] The quoted half-life of <sup>185</sup>Au (7 min) corresponds to an isomeric state. The ground state half-life (4.3(2) min) was first reported by Demin et al. (1968De01) eight years later. In a previous measurement the mass could only tentatively be assigned between 184 and 187 (1953Ra02).

Adapted from reference (2010Sc35)

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