^{271}Ds

The discovery of ^{271}Ds was first mentioned in the refereed literature in the 1995 paper "The new element 111" by Hofmann et al. (1995Ho04). In the introduction Hofmann et al. stated: "In a recent experiment we produced the nucleus ^{269}110 by the reaction ^{62}Ni + ^{208}Pb (1995Ho03). In a succeeding experiment we investigated the reaction ^{64}Ni + ^{208}Pb and observed the heavier isotope ^{271}110 (1994HoZQ)." The reference corresponds to the November 1994 issue of the "GSI - Nachrichten" describing the experiment. ^{208}Pb targets were bombarded with ^{64}Ni beams from the GSI UNILAC. ^{271}Ds was produced in the (1n) fusion evaporation reaction and identified with a detector system at the velocity filter SHIP. Originally (2013Th02) credit was given to a 1998 review article by Hofmann (1998Ho13), howver, the assignment was changed in 2015 (2015Th03) to an earlier paper by Armbruster, Hofmann, and Sobiczewski published in 1995 in Postepy Fizyki (1995Ar34). However, neither of the two previous assignments gave proper credit to all collaborators of the discovery experiment. Thus, the assignment was changed to the 1995 paper by Hofmann et al. because the author list is identical to the internal report.

Adapted from reference (2016Th03)

1994HoZQ S. Hofmann, GSI Nachrichten 11-94 (1994).
1995Ar34 P. Armbruster and S. Hofmann, Postepy Fiz. **46**, 431 (1995).
1995Ho03 S. Hofmann, V. Ninov, F. P. Hessberger, P. Armbruster *et al.*, Z. Phys. A **350**, 277 (1995).
1995Ho04 S. Hofmann, V. Ninov, F. P. Hessberger, P. Armbruster *et al.*, Z. Phys. A **350**, 281 (1995).
1998Ho13 S. Hofmann, Rep. Prog. Phys. **61**, 639 (1998).
2013Th02 M. Thoennessen, At. Data Nucl. Data Tables **99**, 312 (2013).
2015Th03 M. Thoennessen, Int. J. Mod. Phys. E **24**, 1530002 (2015).
2016Th03 M. Thoennessen, Int. J. Mod. Phys. E **25**, 1630004 (2016).

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