

planetmath.org

Math for the people, by the people.

Jessie MacWilliams

Canonical name JessieMacWilliams
Date of creation 2013-03-22 17:18:50
Last modified on Owner PrimeFan (13766)
Last modified by PrimeFan (13766)

Numerical id 4

Author PrimeFan (13766)

Entry type Biography Classification msc 01A60 Jessie MacWilliams (1917 - 1990) British mathematician, best known for her work on error-correcting codes with Neil Sloane at the Bell Labs.

Born in Stoke-on-Trent, MacWilliams earned a bachelor's and a master's degree from Cambridge, then moved to the United States to continue her education at Harvard. After Harvard she began working at Bell Labs, where she assisted Sloane and co-authored with him *The Theory of Error-Correcting Codes*.

Because of her work with Sloane, one might guess MacWilliams has http://planetmath.org/ErdHosNumberErdős number 3, but there's actually an even shorter path: With Jacobus Hendricus van Lint, MacWilliams wrote a paper on "Generalized quadratic residue codes" for *IEEE Trans. Inform. Theory* 24. Lint in turn wrote with Erdős "On the number of positive integers $\leq x$ and free of prime factors > y" in *Simon Stevin* 40.