1014-11-576   **Peter Stevenhagen*** (`psh@math.leidenuniv.nl`), Mathematisch Instituut, Universiteit Leiden, PO Box 9512, 2300 RA Leiden, Netherlands. *The correction factor in Artin's primitive root conjecture.*

One of the oldest appearances of the phenomenon of 'entangled radicals' occurs in relation to a classical conjecture of Artin on the density of prime numbers having a given integer g as a primitive root. We recall the history of the 1927 conjecture and its 1958 correction using original sources that have recently become available. We then analyze the nature of the correction and show how the correction factor resulting from the underlying 'entanglement' can conveniently be computed using character sums. (Received September 20, 2005)