1009-33-63 **Diego Dominici*** (dominicd@newpaltz.edu), 75 S. Manheim Blvd. Suite 9, New Paltz, NY 12561. Nested Derivatives: A simple method for computing series expansions of inverse functions.

We present an algorithm to compute the series expansion for the inverse of a given function. The algorithm is extremely easy to implement and gives the first N terms of the series. We show several examples of its application in calculating the inverses of some special functions. (Received August 02, 2005)