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**Non-Linear Complexity of the Naor-Reingold  
Pseudo-Random Function**

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**Abstract** We obtain an exponential lower bound on the non-linear complexity of the new pseudo-random function introduced recently by M. Naor and O. Reingold. This bound extends and generalizes the lower bound on the linear complexity of this function that has recently been obtained by F. Griffin and I.E. Shparlinshi.