1116-11-2124   **Tall Aadou***, amadou.tall@aims-senegal.org, and **Sanghare Yacin Aly**. *Fast exponentiation methods using the generalized continued fractions.*

Exponentiation is one the basic and most important operation. There are several methods of computing x^n. An optimal method for any integer n doesn't exist. The aim of this paper is to present a new way of computing short addition-subtraction chains using the generalized continued fractions where subtraction is allowed. We will recover the most exponentiation methods. (Received September 21, 2015)