

1106-11-2774 **M.Tip E. Phaovibul*** (phaovib1@illinois.edu), Department of Mathematics, 1409 W Green St, Urbana, IL 61801. *Extensions of Selberg-Delange Method*. Preliminary report.

The Selberg-Delange method is a method that is widely used to determine the asymptotic behavior of the sum of arithmetic functions whose corresponding Dirichlet's series can be written in the term of the Riemann zeta function. In this talk, we first provide a history and recent developments of the Selberg-Delange method. Then, we provide a generalized version of the Selberg-Delange method which can be applied to a larger class of arithmetic functions and some applications. (Received September 16, 2014)