

1112-11-259

Feydoon Shahidi*, Department of Mathematics, Purdue University, 150 N. University Street,
West Lafayette, IN 47907. *On equality of local factors for an arbitrary representation of $GL(n, C)$.*

In this talk we will briefly look at the proof of the equality of Artin factors attached to the second exterior and symmetric power representations of $GL(n, C)$, the L-group of $GL(n)$, and those defined by Langlands-Shahidi method through the local Langlands correspondence, recently given by Cogdell-Shahidi-Tsai. We will then set up certain axioms which will allow us to prove the equality for an arbitrary representation of $GL(n, C)$. Among the axioms is that of multiplicativity in the analytic side which brings in the use of Schur functor. We will discuss this through examples, including exterior cubes and more. (Received August 06, 2015)