



XIAMEN UNIVERSITY MALAYSIA

廈門大學 馬來西亞分校

Research Talk – XMUM

ON FORMAL DEGREES OF UNIPOTENT REPRESENTATIONS

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Research interests: Algebraic Groups and their Representations.

SPEAKER INTRODUCTION

Dr. Feng Yongqi is an Associate Professor at the Department of Mathematics at Shantou University in China. He obtained his Ph.D. from Universiteit van Amsterdam in 2015. His research focuses on Algebraic Groups and their Representations.

ABSTRACT

Let G be a reductive p -adic group which splits over an unramified extension of the ground field. Hiraga, Ichino and Ikeda conjectured that the formal degree of a square-integrable G -representation V can be expressed in terms of the adjoint gamma factor of the enhanced Langlands parameter of V . In joint-work with Eric Opdam and Maarten Solleveld, we have proved this conjecture for unipotent G -representations. In this talk, I will explain the strategy we used in the proof, with emphasis on the supercuspidal cases.