On Reducibility and Unitarizability for Classical $p$-Adic Groups, Some General Results

Marko Tadić

Abstract. The aim of this paper is to prove two general results on parabolic induction of classical $p$-adic groups (actually, one of them holds also in the archimedean case), and to obtain from them some consequences about irreducible unitarizable representations. One of these consequences is a reduction of the unitarizability problem for these groups. This reduction is similar to the reduction of the unitarizability problem to the case of real infinitesimal character for real reductive groups.

Department of Mathematics, University of Zagreb, Bišnička 30, 10000 Zagreb, Croatia
e-mail: tadic@math.hr

Received by the editors May 27, 2006; revised January 12, 2007.
The author was partly supported by Croatian Ministry of Science, Education and Sports grant 037-0372794-2804.
AMS subject classification: Primary: 22E50; secondary: 22E35.
© Canadian Mathematical Society 2009.