1047-53-53

S. T. Stephen Yau\* (yau@uic.edu), Department of MSCS, UIC, SEO Rm 322, M/C 249, 851 S. Morgan Street, Chicago, IL 60607, Rong Du (rdu2@uic.edu), Department of MSCS, UIC, SEO Rm 322, M/C 249, 851 S. Morgan Street, Chicago, IL 60607, and Yun Gao (gaoyunmath@uic.edu), Department of MSCS, UIC, SEO Rm 322, M/C 249, 851 S. Morgan Street, Chicago, IL 60607. EXPLICIT CONSTRUCTION OF MODULI SPACE OF BOUNDED COMPLETE REINHARDT DOMAINS IN C<sup>n</sup> AND HILBERT 14th PROBLEMS.

We shall find a complete set of biholomorphic invariants of complete Reinhardt domains in  $C^n$ . This complete set of biholomorphic invariants is used to give explicit construction of moduli space of complete Reinhardt domains in  $C^n$ . We shall also discuss the role of the Hilbert 14th problem in the construction of numerical biholomorphic invariants of complete Reinhardt domains in  $C^n$ . (Received January 05, 2009)