

## Editorial

This special issue of the Münster Journal of Mathematics is dedicated to our colleague and friend, Professor Dr. Peter Schneider, on the occasion of his 60th birthday. To celebrate this event we organized a conference on “Iwasawa Theory, Representations and the  $p$ -adic Langlands program”, January 6–12, 2013, at the Department of Mathematics in Münster. Many of the participants at that conference are among the contributors to this special issue.

Peter Schneider has made many fundamental contributions to the field of algebraic number theory and the representation theory of  $p$ -adic groups and he is one of the leading experts worldwide for the application of  $p$ -adic methods. His career started with fundamental results on Galois cohomology and reached an early high point in his proof of the Iwasawa theoretic analog of the Birch and Swinnerton-Dyer conjecture for abelian varieties over number fields. Subsequently, Schneider and Venjakob advanced the field of Iwasawa theory from its commutative beginnings to the noncommutative setting. Another focus of his research has been the emerging  $p$ -adic Langlands program of which he is one of the founders and driving forces. Together with Teitelbaum, Schneider developed a comprehensive theory of locally analytic representations of  $p$ -adic Lie groups. This provided a solid foundation for the  $p$ -adic representation theory of these groups. His work with Stuhler on the classical complex representation theory of  $p$ -adic Lie groups has had an enormous influence. His determination, also with Stuhler, of the cohomology of the Drinfeld  $p$ -adic halfspace was another important breakthrough.

In recognition of his achievements, Peter Schneider was awarded the Leibniz-Preis of the German Science Foundation (DFG) in 1992, and the Gay-Lussac-Humboldt Prize in 1995. He was a Clay Research Scholar in 2005 and an invited speaker at the International Congress of Mathematicians 2006 in Madrid.

With this special issue of the Münster Journal of Mathematics we would like to congratulate Peter Schneider on his many outstanding contributions to mathematics and we wish him many more productive and creative years to come!

The Editors