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Edited by Fred Diamond, Payman L. Kassaei and Minhyong Kim

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Automorphic Forms and Galois Representations

Volume 1

Edited by

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Preface

The London Mathematical Society Symposium – EPSRC Symposium on Galois Representations and Automorphic Forms was held at the University of Durham from 18th July until 28th July 2011. These topics have been playing an important role in present-day number theory, especially via the Langlands program and the connections it entails. The meeting brought together researchers from around the world on these and related topics, with lectures on a variety of recent major developments in the area. Roughly half of these talks were individual lectures, while the rest constituted series on the following themes:

- p -adic local Langlands
- Curves and vector bundles in p -adic Hodge theory
- The fundamental lemma and trace formula
- Anabelian geometry
- Potential automorphy

These Proceedings present much of the progress described in those lectures. The organizers are very grateful to all the speakers and to others who contributed articles. We also wish to thank the London Mathematical Society and EPSRC for the financial support that made the meeting possible. We warmly appreciate the assistance and hospitality provided by the University of Durham's Department of Mathematics and Grey College. These institutions have helped to make the Symposia such a well established and highly valued event in the number theory community.

Fred Diamond
Payman Kassaei
Minhyong Kim