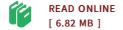# Elliptic Curves, Hilbert Modular Forms and Galois Deformations

By Laurent Berger, Gebhard Bockle, Lassina Dembele, Mladen Dimitrov, Tim Dokchitser

Springer Basel. Paperback. Book Condition: new. BRAND NEW, Elliptic Curves, Hilbert Modular Forms and Galois Deformations, Laurent Berger, Gebhard Bockle, Lassina Dembele, Mladen Dimitrov, Tim Dokchitser, The notes in this volume correspond to advanced courses held at the Centre de Recerca Matematica as part of the research program in Arithmetic Geometry in the 2009-2010 academic year. The notes by Laurent Berger provide an introduction to p-adic Galois representations and Fontaine rings, which are especially useful for describing many local deformation rings at p that arise naturally in Galois deformation theory. The notes by Gebhard Bockle offer a comprehensive course on Galois deformation theory, starting from the foundational results of Mazur and discussing in detail the theory of pseudo-representations and their deformations, local deformations at places l p and local deformations at p which are flat. In the last section,the results of Bockle and Kisin on presentations of global deformation rings over local ones are discussed. The notes by Mladen Dimitrov present the basics of the arithmetic theory of Hilbert modular forms and varieties, with an emphasis on the study of the images of the attached Galois representations, on modularity lifting theorems over totally real number fields, and on the cohomology...

READ ONLINE
[6.82 MB]

Reviews

DMCA Notice | Terms