

Preface

This monograph is an expanded version of the notes for a series of lectures delivered at a workshop on *Moduli Spaces and the Arithmetic of Dynamical Systems*, Bellairs Research Institute, Barbados, May 2–9, 2010. As such, the level of exposition is uneven, with some results being worked out in detail, while others are merely sketched or have proofs by citation. The goal is to provide an overview, with enough details and pointers to the existing literature, to give the reader an entry into this exciting area of current research. It is the author's hope that this will be useful, especially since at present there are only a small number of books [4, 38, 61, 90, 99, 110] dealing with the arithmetic or algebraic side of dynamical systems. For further reading, the reader might consult the webpage

<http://www.math.brown.edu/~jhs/ADSHome.html>

which contains links to an extensive list of articles in this area.

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