

# Math 7390 – Abelian Varieties

Farbod Shokrieh

Spring 2016

(January 31, 2016 draft)

## Contents

<b>1</b>	<b>Introduction</b>	<b>3</b>
----------	---------------------	----------

## Contributors

So far the following people have contributed to this write-up:

1. [Farbod Shokrieh](#): Giving lectures, initial LaTeX setup, some (minimal) editing.
2. [Theodore Hui](#): Scribing lectures: § ??
3. [Daniel Collins](#): Scribing lectures: § ??
4. XXXXXXX: Scribing lectures: § ??
5. XXXXXXX: Scribing lectures: § ??
6. XXXXXXX: Scribing lectures: § ??
7. XXXXXXX: Scribing lectures: § ??
8. XXXXXXX: Scribing lectures: § ??
9. XXXXXXX: Scribing lectures: § ??
10. XXXXXXX: Scribing lectures: § ??

# 1 Introduction

[BL04] [BLR90] [FC90] [Mil08] [Mum08] [Mum07a] [Mum07b] [Mum07c] [CS86]

## References

- [BL04] Christina Birkenhake and Herbert Lange, *Complex abelian varieties*, Second, Grundlehren der Mathematischen Wissenschaften [Fundamental Principles of Mathematical Sciences], vol. 302, Springer-Verlag, Berlin, 2004. [MR2062673](#) ([2005c:14001](#)) [↑3](#)
- [BLR90] Siegfried Bosch, Werner Lütkebohmert, and Michel Raynaud, *Néron models*, Ergebnisse der Mathematik und ihrer Grenzgebiete (3) [Results in Mathematics and Related Areas (3)], vol. 21, Springer-Verlag, Berlin, 1990. [MR1045822](#) ([91i:14034](#)) [↑3](#)
- [CS86] Gary Cornell and Joseph H. Silverman (eds.), *Arithmetic geometry*, Springer-Verlag, New York, 1986. Papers from the conference held at the University of Connecticut, Storrs, Connecticut, July 30–August 10, 1984. [MR861969](#) ([89b:14029](#)) [↑3](#)
- [FC90] Gerd Faltings and Ching-Li Chai, *Degeneration of abelian varieties*, Ergebnisse der Mathematik und ihrer Grenzgebiete (3) [Results in Mathematics and Related Areas (3)], vol. 22, Springer-Verlag, Berlin, 1990. With an appendix by David Mumford. [MR1083353](#) ([92d:14036](#)) [↑3](#)
- [Mil08] James S. Milne, *Abelian varieties (v2.00)*, 2008. Available at <http://www.jmilne.org/math/CourseNotes/av.html>. [↑3](#)
- [Mum07a] David Mumford, *Tata lectures on theta. I*, Modern Birkhäuser Classics, Birkhäuser Boston, Inc., Boston, MA, 2007. With the collaboration of C. Musili, M. Nori, E. Previato and M. Stillman, Reprint of the 1983 edition. [MR2352717](#) ([2008h:14042](#)) [↑3](#)
- [Mum07b] David Mumford, *Tata lectures on theta. II*, Modern Birkhäuser Classics, Birkhäuser Boston, Inc., Boston, MA, 2007. Jacobian theta functions and differential equations, With the collaboration of C. Musili, M. Nori, E. Previato, M. Stillman and H. Umemura, Reprint of the 1984 original. [MR2307768](#) ([2007k:14087](#)) [↑3](#)
- [Mum07c] David Mumford, *Tata lectures on theta. III*, Modern Birkhäuser Classics, Birkhäuser Boston, Inc., Boston, MA, 2007. With collaboration of Madhav Nori and Peter Norman, Reprint of the 1991 original. [MR2307769](#) ([2007k:14088](#)) [↑3](#)
- [Mum08] David Mumford, *Abelian varieties*, Tata Institute of Fundamental Research Studies in Mathematics, vol. 5, Published for the Tata Institute of Fundamental Research, Bombay; by Hindustan Book Agency, New Delhi, 2008. With appendices by C. P. Ramanujam and Yuri Manin, Corrected reprint of the second (1974) edition. [MR2514037](#) ([2010e:14040](#)) [↑3](#)