

## Additional References

1. I.I. Bouw and S. Wewers, *Indigenous bundles with nilpotent p-curvature*, IMRN 2006 (2006), 1-37.
2. I.V. Čerednik, *Towers of algebraic curves uniformized by discrete subgroups of  $PGL_2(k_w) \times E$* , Math.USSR Sbornik, Vol 28 (1976) No 2; 187-215.
3. I.V. Čerednik, *Uniformization of algebraic curves by discrete arithmetic subgroups of  $PGL_2(k_w)$  with compact quotients*, Math.USSR Sbornik, Vol 29 (1976) No 1; 55-78.
4. L. Clozel, M. Harris and R. Taylor, *Automorphy for some  $\ell$ -adic lifts of automorphic mod  $\ell$  Galois representations*, Preprint 2005 (cf. Revised Version 2008).
5. F. Diamond and R. Taylor, *Non-optimal levels of mod  $\ell$  modular representations*, Invent. math. 115 (1994), 435-462.
6. H. Darmon, *Integration on  $H_p \times H$  and arithmetic applications*, Ann. of Math. 154 (2001), 589-639.
7. V.G. Drinfeld, *Langlands conjecture for  $GL(2)$  over function fields*, Proc. International Congress of Mathematicians, Helsinki (1978), 565-574.
8. V.G. Drinfeld and S.G. Vladut, On the number of points of algebraic curves, Functional Analysis 17 (1983), 68-69 (in Russian).
9. G. Frey, E. Kani and H. Völklein, *Curves with infinite K-rational geometric fundamental group*, In: Aspects of Galois Theory. H. Völklein et al., eds., London Math. Soc. Lecture Note Ser. 256, 85-118 (1999).
10. Y. Furukawa, *On the liftings of the Frobenius correspondences of algebraic curves of genus two over finite field*, J.Algebra 83 (1983), 442-460.
11. Y. Ihara, *On congruence monodromy problems*; (a Russian translation of Volume 1); Matematyka 14-3(1970),40-98; 14-4(1970),48-77; 14-5(1970),62-101.
12. Y. Ihara, *An invariant multiple differential attached to the field of elliptic modular functions of characteristic p*, Amer. J. Math. XCIII (1971), 139-147.
13. Y. Ihara, *Non-abelian classfields over function fields in special cases*, Actes du congrès international des mathématiciens, Tome 1, Nice, (1970), 381-389.
14. Y. Ihara, *On  $(\infty \times p)$ -adic coverings of curves*, Proc. Internat. Conf. on Number theory, Moscow, Sept. 1971; Trudy Math. Inst. Steklov 132 (1973), 118-131.
15. Y. Ihara, *On modular curves over finite fields*, Papers presented at the Internat. Colloquim on Discrete Subgroups and applications to the problem of Moduli; Bombay, Jan. 1973; Tata Inst. Fund. Studies, Oxford Univ. Press; 161-202.
16. Y. Ihara, *Schwarzian equations*, J. Fac. Sci. Univ. of Tokyo IA 21 (1974), 97-118.
17. Y. Ihara, *On the differentials associated to congruence relations and the Schwarzian equations defining uniformizations*, J. Fac. Sci. Univ. of Tokyo IA 21 (1974), 309-332.
18. Y. Ihara and H. Miki, *Criteria related to potential unramifiedness and reduction of unramified coverings of curves*, J. Fac. Sci. Univ. of Tokyo IA 22 (1974), 237-254.
19. Y. Ihara, *On the Frobenius correspondences of algebraic curves*, Proc. Internat. Symp. on Alg. Number Theory, Kyoto (1976); 67-98, Japan Soc. of Promotion of Science.
20. Y. Ihara, *Congruence relations and Shimura curves*, Proc. Symp. in pure Math. 33 (Part 2), Amer. Math. Soc. (1979), 291-311.
21. Y. Ihara, *Congruence relations and Shimura curves II*, J. Fac. Sci. Univ. Tokyo IA 25 (1979), 301-361.
22. Y. Ihara, *Congruence relations and fundamental groups*, J. Algebra 75 (1982), 445-451.

23. Y. Ihara, *Lifting curves over finite fields together with the characteristic correspondence  $\Pi + \Pi'$* , J. Algebra 75 (1982), 452–483.
24. Y. Ihara, *Some remarks on the number of rational points of algebraic curves over finite fields*, J. Fac. Sci. Univ. of Tokyo, IA 28 (1982), 721–724.
25. Y. Ihara, *On unramified extensions of function fields over finite fields*, Adv. Studies in Pure Math. Vol.2 (1983), 89–97, Kinokuniya, North Holland (Republished by Math. Soc. Japan, 20 (2008)).
26. Y. Ihara, *Shimura curves over finite fields and their rational points*; in “Applications of Curves over Finite Fields” (ed. M.D. Fried), Contemporary Math. 245 (1999), 15-23.
27. M. Koike, *Congruence between modular forms and functions, and applications to the conjecture of Atkin*, J.Fac. Sci., Univ. of Tokyo IA, 20 (1973), 129-169.
28. J.P. Labesse, *Formule des traces et fonction  $\zeta_\Gamma$  de Ihara*; Appendice C in “Variété de Shimura et fonctions  $L$ ”, Publ. math. de l'univ. Paris VII (L.Breen and J.P.Labesse, eds.) (1979), 165-178.
29. L. Lafforgue, *Chtoucas de Drinfeld et correspondance de Langlands*, Invent.math. 147 (2002), 1-241.
30. R.P. Langlands, *On the zeta-functions of some simple Shimura varieties*, Canadian J.Math. 31-6 (1979), 1121-1216.
31. G.A. Margulis, *Discrete groups of motions of manifolds of nonpositive curvature* (in Russian); Proc. Internat. Congress Math. (Vancouver 1974) 2, 21-34.
32. G.A. Margulis, *Discrete subgroups of semisimple Lie groups*, Ergebnisse der Mathematik und ihrer Grenzgebiete, Vol 17, Springer, Berlin.
33. S. Mochizuki, *Correspondences on hyperbolic curves*, J. Pure and Applied Algebra 131 (1998), 227-244.
34. S. Mochizuki, *The intrinsic Hodge theory of  $p$ -adic hyperbolic curves*, Documenta Mathematica. Extra Volume ICM 1998; II, 187-196.
35. S. Mochizuki, *Foundations of  $p$ -adic Teichmüller theory*, Studies in Advanced Mathematics, (S.-T.Yau, Series Eds.) Amer. Math. Soc./Internat. Press 11 (1999).
36. Y. Morita, *Reduction mod  $\mathfrak{P}$  of Shimura curves*, Hokkaido Math. J. 10 (1981), 209-238.
37. M. Ohta, *On  $\ell$ -adic representations attached to automorphic forms*, Japanese J. Math., 8 (1982), 1-47.
38. K. Ribet, *Congruence relations between modular forms*, Proc. Internat. Congress Math. 17(1983), Warszawa, 503-514.
39. G. Shimura, *On canonical models of arithmetic quotients of bounded symmetric domains I;II* Ann. of Math. (2) 91 (1970), 144-222; *ibid* 92 (1970), 528-549.
40. K. Takeuchi, *Arithmetic fuchsian groups with signature  $(1; e)$* , J.Math.Soc.Japan (3)(1983),381-407.
41. A. Tamagawa, *The Grothendieck conjecture for affine curves*, Comp. Math. 109 (1997), 135-194.
42. M.A. Tsfasman,S.G. Vladut, and Th. Zink, *Modular curves, Shimura curves, and Goppa codes better than the Varshamov-Gilbert bound*, Math. Nachr., 109 (1982), 21-28.
43. A. Wiles, *Modular elliptic curves and Fermat's Last Theorem*, Ann. of Math.142 (1995), 443-551.