

A primer in Arakelov Geometry

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Programma del corso:

I'll present the basic constructions and tools underlying Arakelov Geometry. Time permitting, I will give some applications to number theory and/or diophantine approximation. Preliminary material will be covered by Andrea D'Agnolo.

References:

- [1] Soulé, C. : Lectures on Arakelov geometry. With the collaboration of D. Abramovich, J.-F. Burnol and J. Kramer. Cambridge Studies in Advanced Mathematics, 33. Cambridge University Press, Cambridge, 1992. viii+177 pp. ISBN: 0-521-41669-8
- [2] Soulé, C. : Hermitian vector bundles on arithmetic varieties. Algebraic geometry - Santa Cruz 1995, 383–419, Proc. Sympos. Pure Math., 62, Part 1, Amer. Math. Soc., Providence, RI, 1997.
- [3] Bost, J.-B.; Gillet, H.; Soulé, C. : Heights of projective varieties and positive Green forms. J. Amer. Math. Soc. 7 (1994), no. 4, 903–1027.