

LIST OF TALKS SPRING 2010

1. Friday January 22 at 10:30 AM in Room 312. Organizational meeting.
2. Friday January 29 at 3:30 AM in Room 312. Daniel Disegni on Faltings, Gerd; Wustholz, Gisbert, *Diophantine approximations on projective spaces*, Invent. Math. **116** (1994), no. 1-3, 109–138.
3. Friday February 5 at 3:30 AM in Room 312. Thibaut Pugin on Serre, Jean-Pierre, *Un theoreme de dualite*, Comment. Math. Helv. **29**, (1955). 9–26.
4. Friday February 12 at 3:30 AM in Room 312. Ben Elias on Demazure, Michel, *A very simple proof of Bott's theorem*, Invent. Math. **33** (1976), no. 3, 271–272. Demazure, Michel, *Sur la formule des caracteres de H. Weyl*, Invent. Math. **9** 1969/1970 249–252. Demazure, Michel, *Une demonstration algebrique d'un theoreme de Bott*, Invent. Math. **5** 1968 349–356. Bott, Raoul, *Homogeneous vector bundles*, Ann. of Math. (2) **66** (1957), 203–248.
5. Friday February 19 at 3:30 AM in Room 312. Yanhong Yang on Deligne, P.; Mumford, D., *The irreducibility of the space of curves of given genus*, Inst. Hautes Etudes Sci. Publ. Math. No. **36** 1969 75–109. Fulton, William, *On the irreducibility of the moduli space of curves*, Appendix to the paper of Harris and Mumford, Inventiones Mathematicae, Volume **67**, Number 1 / February, 1982, pp. 87-88.
6. Friday February 26 at 3:30 AM in Room 312. No seminar. Joint Algebraic Geometry Seminar at NYU.
7. Friday March 5 at 3:30 AM in Room 312. Zachary Maddock on Graber, Tom; Harris, Joe; Starr, Jason, *Families of rationally connected varieties*, J. Amer. Math. Soc. **16** (2003), no. 1, 57–67.
8. Friday March 12 at 3:30 AM in Room 312. Pan Xuanyu on Graber, Tom; Harris, Joe; Mazur, Barry; Starr, Jason, *Rational connectivity and sections of families over curves*, Ann. Sci. Ecole Norm. Sup. (4) **38** (2005), no. 5, 671–692.
9. Friday March 19 at 3:30 AM in Room 312. No seminar. Spring break.
10. Friday March 26 at 3:30 AM in Room 312. Xia Jie on Horrocks, G.; Mumford, D., *A rank 2 vector bundle on  $\mathbf{P}^4$  with 15,000 symmetries*, Topology **12** (1973), 63–81.
10. Friday April 2 at 3:30 AM in Room 312. Alexander Palen Ellis on Mumford, David, *The topology of normal singularities of an algebraic surface and a criterion for simplicity*, Inst. Hautes Etudes Sci. Publ. Math. No. **9** 1961 5–22.
10. Friday April 9 at 3:30 AM in Room 312. Qi You on Mukai, Shigeru, *Duality between  $D(X)$  and  $D(\hat{X})$  with its application to Picard sheaves*, Nagoya Math. J. **81** (1981), 153–175. Mukai, Shigeru, *Fourier functor and its application to the moduli of bundles on an abelian variety*, Algebraic geometry, Sendai, 1985, 515–550, Adv. Stud. Pure Math., **10**.
10. Friday April 16 at 3:30 AM in Room 312. Yi Zhu on first paper by Deligne in the book Deligne, Pierre; Milne, James S.; Ogus, Arthur; Shih, Kuang-yen, *Hodge cycles, motives, and Shimura varieties*, Lecture Notes in Mathematics, **900**. Springer-Verlag, Berlin-New York, 1982.
11. Friday April 23 at 3:30 AM in Room 312. Sho Tanimoto & Luis Garcia. First part of two part lecture on Deligne, Pierre, *La conjecture de Weil pour les surfaces  $K3$* , Invent. Math. **15** (1972), 206–226.
12. Friday April 30 at 3:30 AM in Room 312. Sho Tanimoto & Luis Garcia. Second part of two part lecture on Deligne, Pierre, *La conjecture de Weil pour les surfaces  $K3$* , Invent. Math. **15** (1972), 206–226.