

Moduli Proiettivi e Piatti

Fatma Kader Bingöl

15 Giugno, 09.30 - Aula 1BC/45, Torre Archimede

Abstract

In the seminar, two main results on projective modules deduced by Kaplansky in [K] will be given:

- Over a local ring any projective module is free,
- Over a commutative semi-hereditary ring any projective module is a direct sum of finitely generated ideals.

Furthermore we are going to talk on flat modules: we see that a flat module is almost projective that is, it is a colimit of a directed system of free finitely generated modules. This is the structure theorem for flat modules deduced by Lazard in [L] and a proof will be given in the seminar.

References

- [K] Irving Kaplansky , *Projective Modules*, Ann. of Math (2), 372-377, 1958.
- [L] Daniel Lazard, *Autour de la Platitude*, Bulletin de la S.M.F., tome 97, 81-86, 1969.