

THE STRUCTURE OF SALLY MODULES AND
BUCHSBAUMNESS OF ASSOCIATED GRADED RINGS

KAZUHO OZEKI

ABSTRACT. Let A be a Noetherian local ring with the maximal ideal \mathfrak{m} and I an \mathfrak{m} -primary ideal in A . The purpose of this paper is to study the equality on Hilbert coefficients of I given in Elias and Valla [EV], without assuming that A is a Cohen-Macaulay local ring. It is related to the Buchsbaumness of the associated graded ring of I .

REFERENCES

[EV] J. Elias and G. Valla, *Rigid Hilbert functions*, J. Pure and Appl. Algebra **71** (1991) 19–41.

ORGANISATION FOR THE STRATEGIC COORDINATION OF RESEARCH AND INTELLECTUAL PROPERTY, MEIJI UNIVERSITY, 1-1-1 HIGASHI-MITA, TAMA-KU, KAWASAKI 214-8571, JAPAN

E-mail address: kozeki@math.meiji.ac.jp