

On coefficient ideals

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Let (R, \mathfrak{m}) be a local Noetherian ring with infinite residual field R/\mathfrak{m} and let I be an ideal in R . In this talk we show the existence of a unique chain of ideals between I and the integral closure of I . Furthermore, we will give some properties and extensions of some already known results. Finally, we will mention some open problems. This is a joint work with Pedro Apoliano Lima.