

REDUCTION OF A FAMILY OF IDEALS

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If I is an m -primary ideal in the Noetherian local ring (R, m) with infinite residue field, then there exists a reduction J of I which is generated by a system of parameters. Moreover, the generators of J may be given as a sufficiently general linear combinations of generators of I . We prove similar result for families of m -primary ideals in the ring of germs of holomorphic functions.