Hamid Kulosman* (h0kulo01@louisville.edu), Department of Mathematics, 328 Natural Sciences Building, University of Louisville, Louisville, KY 40292. An inductive algorithm for constructing c-sequences. Preliminary report.

Let $a_1, a_2, ..., a_n$ be elements in a commutative ring $R$ and $I$ the ideal they generate. A sequence $<a_1, a_2, ..., a_n>$ is a c-sequence if

$$[I_{i-1}I^k : a_i] \cap I^k = I_{i-1}I^{k-1}$$

for $i = 1, 2, ..., n$ and $k \geq 1$. These sequences are interesting because they generate ideals of linear type. We talk about an inductive algorithm for constructing c-sequences. (Received September 28, 2005)