ICM 1998, Berlin, Aug. 18–27

Abstracts of Short Communications and Posters

Section:

2. Algebra

1991 MS Classification: 15

Sheth, Dilip N., Sir Parashurambhau College, Pune, India

Completion of a unimodular vector to an invertible matrix

A. Suslin, in his doctoral thesis, had shown that if the unimodular vector $(x_0, x_1, x_2, \cdots, x_n) \in Um_{n+1}(R)$ (R a commutative ring with unity), then $(x_0, x_1, x_2^2, \cdots, x_n^n)$ can always be completed to an invertible matrix. In this paper we give an algorithm to construct such an invertible matrix concretely.

Reference:

1. A. A. Suslin, On Stably free modules, Math. USSR Sb. 31(1977),479-491.