

Turkish Journal of Mathematics

Turkish Journal

A Class of Monoids Embeddable in a Group

of


Ebru KEYMAN

Middle East Technical University,

Department of Mathematics,

06531 Ankara-TURKEY

Mathematics

 [Keywords](#)
 [Authors](#)

Abstract: In this paper, we develop a new method to show that a monoid, given by a certain kind of presentation, embeds in a group. A mathematical device called the diamond condition was used in [5] to prove that the singular braid monoid SB_n embeds. Motivated by this, we consider monoid presentations which have the basic properties of the presentation of the singular braid monoid. In the same way as in [5], we prove that the monoid embeds. The proof of the diamond condition is completely geometric in [5], but here we prove it by using elementary algebraic properties.



Key Words: Embedding, monoid presentation, group presentation, geometric braids.

math@tubitak.gov.tr

Turk. J. Math., **25**, (2001), 299-305.

Full text: [pdf](#)

[Scientific Journals Home Page](#)

Other articles published in the same issue: [Turk. J. Math., vol.25, iss.2.](#)