SOME CLASSICAL RESULTS ON BIGROUPS

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In this paper we study the classical properties about bigroups. Maggu in 1994 defined bigroups and sub-bigroups but did not study any of its classical results like Lagrange's theorem, Cauchy theorem, etc.

Here we define symmetric bigroups and prove the Cayley's theorem for groups to be true even in the case of bigroups. But all other theorems like Lagrange's theorem, Cauchy theorem which deals with the order of the bigroup or its element is not true. To overcome this we define biorder and if we replace the order by the notion of biorder all classical results are obtained.