

# THE REGULARITY CLASSES OF ORDERED PARTIAL BILINEAR FORM SEMIGROUPS

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## ABSTRACT

The aim of this study is to obtain the characteristics of the ordered partial of bilinear forms semigroups based on their regularity classes. Based on these objectives, this study concentrated on the investigation to obtain a new theory of regularity classes in ordered partial bilinear form semigroups. Based on the new theory produced, we characterized the properties of the regularity classes of the ordered partial bilinear form semigroups. To achieve the goal of this study, we can explore the properties of regularity class in ordinary semigroup, which are combined with bilinear form semigroup in which the ordered partial operations are defined. Based on this method, a new theory is expected to be produced i.e. about the classes of regularity in ordered partial bilinear form semigroups.

The targets has been obtained and published at international seminars followed by the IoP ICMSE Journal, that held in Bali on 8, 9 October 2018. One other article is published in the Scopus indexed Journal through the ICMETA international seminar that held in Solo on 30, 31 October 2018.

Kata Kunci: *regularity class, Bilinear form, semigroup, ordered partial*