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## Full AFL characterization of the class of hyper $\beta$ -languages of order $n^*$

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**Abstract.** The concept of trio, abstract family of languages (AFL) and full abstract family of languages (full AFL) was initiated by Ginsburg and Greibach in [2] and further studied in [3-6]. Also, we know that the class of regular languages, context-free languages and recursively enumerable languages form full AFL, while the class of context-sensitive languages is only an AFL but not a full AFL. In this paper, we show that the class of hyper  $\beta$ -languages of order  $n$  [10] forms a full AFL.

**AMS Subject Classification (2020):** 68Q45

**Keywords:** Trios, hyper  $\beta$ -languages of order  $n$ , regular languages, context-free languages

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