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*On some convexity properties in the Besicovitch-Musielak-Orlicz space of almost periodic functions with Luxemburg norm*

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**Abstract:** In this article, it is shown that geometrical properties such as local uniform convexity, mid point local uniform convexity, H-property and uniform convexity in every direction are equivalent in the Besicovitch-Musielak-Orlicz space of almost periodic functions ( $\tilde{B}^\varphi$ a.p.) endowed with the Luxemburg norm.

**Keywords:** local uniform convexity, uniform convexity in every direction, mid point locally uniform, H-property, strict convexity, approximation, Besicovitch-Musielak-Orlicz space, almost periodic function

**AMS Subject Classification:** 46B20, 42A75

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