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ON $\mathcal{I}$-CONVERGENCE, $\mathcal{I}$-LIMIT POINT AND $\mathcal{I}$-CLUSTER POINT OF SEQUENCES OF BI-COMPLEX NUMBERS

Shyamal Debnath*
Department of Mathematics
Tripura University (A Central University), Suryamaninagar-799022, Agartala, India.
(E-mail: shyamalnitamath@gmail.com)

and

Juwel Hossain†
Department of Mathematics
Tripura University (A Central University), Suryamaninagar-799022, Agartala, India.
(E-mail: juweljoya123@gmail.com)

Abstract. In this paper, we introduce the concept of $\mathcal{I}$ and $\mathcal{I}^*-$ convergence of sequences of bi-complex number. We study some basic properties and implication relations of the newly defined convergence concepts. We introduce the notions of $\mathcal{I}$ and $\mathcal{I}^*-$ Cauchy sequences of bi-complex number and investigate the relations between them. Also, we introduce the notion of $\mathcal{I}-$limit point, $\mathcal{I}-$cluster point and prove certain properties of both the notions.

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