
Statistical limit points and Baire category of sequences

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The number λ is a statistical limit point of the sequence (x_n) , if λ is the limit of a subsequence (x_{k_n}) such that the set of indices k_n has a positive upper asymptotic density.

Let \mathbf{s} denote the Fréchet metric space of all real sequences. Denote by \mathbf{s}_0 the set of all real sequences, which statistical limit points is not equal to the set of all real numbers.

The main result of the talk is that \mathbf{s}_0 is a set of the first Baire category in the space \mathbf{s} .