

## On some properties of Luzin spaces

Mariam Beriashvili  
TSU I. Vekua Institute of Applied Mathematics  
Georgian Technical University  
[Mariam\\_beriashvili@yahoo.com](mailto:Mariam_beriashvili@yahoo.com)

As known,

- a Luzin space (I) is an uncountable topological  $T_1$ -space without isolated points in which every nowhere dense subset is at most countable.
- According to another definition, a Luzin space (II) is a topological space  $X$ , such that there exists no nonzero  $\sigma$ -finite Borel measures on  $X$  vanishing at all singletons in  $X$ .

Let us remark that, above mentioned definitions are not equivalent in general.

In the presented talk we will discuss some connections between Luzin spaces (I, II) and their properties.