Star versions of Menger basis covering property and Menger measure zero spaces

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Abstract. In this paper, we consider the star version of Menger basis covering property introduced by Menger in 1924. The author obtained relationship between star-selection principles and star versions of Menger basis covering property for metrizable spaces. We also consider star versions of Menger measure zero spaces and characterize these new spaces by star-selection principle related to star-Menger spaces. In this manner, we obtained relationships of star-Menger property with other existing properties in literature.

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We are sorry to announce that, after the acceptance of this paper, the talented and dedicated young topologist Manoj Bhardwaj passed away on 28 March 2021.