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Localic Katětov-Tong insertion theorem and localic Tietze extension theorem

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Abstract: In this paper, localic upper, respectively lower continuous chains over a locale are defined. A localic Katětov-Tong insertion theorem is given and proved in terms of a localic upper and lower continuous chain. Finally, the localic Urysohn lemma and the localic Tietze extension theorem are shown as applications of the localic insertion theorem.

Keywords: frame, locale, lower (upper) continuous chain, normal locale

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