

## عنوان مقاله:

Shape Loop Space of Pro-discrete Spaces

## محل انتشار:

مجله علوم ریاضی کاسپین، دوره 11، شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 8

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## خلاصه مقاله:

In this paper, considering the  $k$ th shape loop space  $\check{\Omega}_k^{\mathbf{p}}(X, x)$ , for an  $\text{HPol}_*^*$ -expansion  $\mathbf{p}: (X, x) \rightarrow ((X_{\lambda}, x_{\lambda}), [p_{\lambda}], \Lambda)$  of a pointed topological space  $(X, x)$ , first we prove that  $\check{\Omega}_k$  commutes with the product under some conditions and then we show that  $\check{\Omega}_k^{\mathbf{p}}(X, x) \cong \varprojlim \check{\Omega}_k^{\mathbf{p}}(X_i, x_i)$ , for a pro-discrete space  $(X, x) = \varprojlim (X_i, x_i)$  of compact polyhedra. Finally, we conclude that these spaces are metric, second countable and separable.

## کلمات کلیدی:

Shape theory, Inverse limit, Loop space

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1616751>

