

## Functor from category of pointed intrinsic shape to category of groups

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(joint work with Aneta Velkoska)

In [1] is defined proximate fundamental group by the intrinsic definition of shape based on proximate sequences for compact spaces and based on proximate nets indexed by open coverings for paracompact spaces. In this talk we introduce the proximate groups of higher order. Moreover, we show that there exists a functor from category of pointed intrinsic shape to category of groups.

- [1] N. Shekutkovski, A. Velkoska, One Invariant of Intrinsic Shape, *Filomat* **29:10** (2015), 2185–2197.