

## Mapping spaces on polyhedral products

Jelena Grbic, University of Southampton

We construct configuration space models for spaces of maps into certain subcomplexes of product spaces (including polyhedral products). Using these models, we further study a suspension splitting of the loop space of polyhedral products and gain information about certain attaching maps used to construct polyhedral products over a simplicial complex  $K$ . These are computed explicitly in the case where  $K$  is minimally non-extractible, leading to progress on the conjecture relating Golod complexes and polyhedral products that are co- $H$ -spaces.

This is joint work Piotr Beben.