

## GORDIAN UNLINKS

**Jose Ayala Hoffmann**

Universidad de Tarapacá, Chile

[jayalhoff@gmail.com](mailto:jayalhoff@gmail.com)

A Gordian unlink is a finite number of not topologically linked unknots with prescribed length and thickness that cannot be disentangled to the trivial link by an isotopy preserving length and thickness throughout.

In this talk, we present the first examples of Gordian unlinks. As a consequence, we detect the existence of isotopy classes of thick unknots different from those in classical knot theory. More generally, we present a one-parameter family of Gordian unlinks with thickness ranging in  $[1, 2)$  to conclude that thinner normal tubes lead to different rope geometry from the ones so far considered.