

# Continuous morphisms

Continuity, proximal continuity, and uniform continuity of  $f$  is expressed by the same formula:

$$f \circ \mu \sqsubseteq \nu \circ f.$$

In the case if  $f$  is monovalued and entirely defined, we have

$$f \circ \mu \sqsubseteq \nu \circ f \Leftrightarrow \mu \sqsubseteq f^{-1} \circ \nu \circ f \Leftrightarrow f \circ \mu \circ f^{-1} \sqsubseteq \nu.$$

This can be generalized for any partially ordered dagger categories.