

# Characterising representable positive relation algebras via Priestley duality

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- 1 Priestley duality
- 2 Positive relation algebras and their representatition
- 3 Spectral spaces for positive relation algebras
- 4 Complete representability
  - 4.1 Completely representable distibutive lattices
  - 4.2 Completely representable positive relation algebras
- 5 The main result

**Theorem 1.** *Let  $\mathcal{R}$  be a positive relation algebra, then  $\mathcal{R}$  is representable iff  $(\mathcal{R}_+)^+$  is completely representable.*

**Theorem 2.** *RPRA is a canonical variety.*