

## Research TODOs

- Menger-related properties and games results
  - Is there a slick characterization of  $F \uparrow_{2\text{-mark}} Cov_{C,F}(X)$  for regular/general spaces?
  - Is  $F \uparrow? Cov_{C,F}(X)$  or  $F \uparrow? Cov_{C,S}(X)$  a hereditary property under closed subsets for any type of limited information? (The Menger property is; is Rothberger?)
  - Investigate Markov strategies for  $S$  in  $Cov_{C,S}(X)$  or  $P$  in  $Cov_{P,O}(X)$ .
- Filling games
  - Show/disprove  $F \uparrow_{3\text{-tact}} Fill_{M,N}^{\subseteq}(J)$  implies  $F \uparrow_{3\text{-mark}} Fill_{M,N}^{\subseteq}(J)$ .
  - Show/disprove  $F \uparrow_{2\text{-mark}} Cov_{C,F}(\kappa^{\dagger})$  implies  $F \uparrow_{2\text{-mark}} Fill_{C,F}^{\subseteq}(\kappa)$ .
- Search for a class of spaces where  $K \uparrow_{2\text{-tact}} LF_{K,P}(X)$  characterizes metacompact (aka implies  $K \uparrow_{\text{tact}} LF_{K,P}(X)$ )
  - Investigate the ladder space suggested by G.
  - Try zero-dimensional.
- Proximity Game
  - Read paper by Bell