4 Proofs of Construction

- what does safety mean? putting money into joint control. can I get some of it back if cooperation breaks down.
- paper aims to put in place a framework for reasoning about the correctness of state channel constructions reasoning about what I hold off-chain and what if means to me
- how to extract value states —; outcomes —; money reducing channel diagrams -i, value
- outcome diagrams fundamental rule of state channels if two states are worth the same, I will transition between them the "simple rule of state channels" we ignore other factors value funded ? offloaded
- safe this is the guarantee that if a participant stops at any point other participants don't lose out
- allows rewriting [diagram] example: closing off-chain
- two questions (finalization + redistribution) what can I definitely finalize? what can I definitely redistribute to myself?
- protocol design: how can I move between states in single moves that keep the value the same \dots when we don't allow atomic changes across channels
- presenting a construction / protocol in particular when presenting a protocol we must demonstrate a series single state updates, demonstrate that the value is preserved in particular the way we do this: demostrate a construction funds a channel demonstrate we can build it from another state give a series of waypoint states universally finalizable outcomes of a special type of channel consensus channels, running a particular protocol use the specifics of this channel to say we can move between them in a safe manner

4.1 Finalizable outcomes

- definition: statement definition: channel state definition: adjudicator state
- definition: system state
- the rules of strategies

subsection consensus game [diagram] - pictorial representation of consensus game

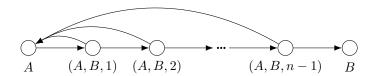


Figure 1: Cool, huh?