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Simultaneous Complications

Combinatorial game theory has a beautiful underlying structure, where algebraic structures meet game value equivalence classes, and properties we would expect to hold, do. Now consider combinatorial games but rather than players taking turns moving in a game sum, players move at the same time. Throughout this talk, we will explore these simultaneous combinatorial games, and examine the challenges associated with sums and game values. Lastly, we conclude by discussing a potential solution to these challenges, as well as future directions.

Joint work with Dr. Richard Nowakowski and Dr. Paul Ottaway.