

## FMfI2023 Poster Session

Name	Hiroki Sasaki
Affiliation	Graduate School of Mathematics, Kyushu University, Fukuoka, Japan
Poster title	<b>Board Game and Combinatorics of a Triangulated Square</b>
Abstract	<p>There is a remarkable connection between Brouwer's fixed-point theorem and a board game called the Hex: the fact that there is no draw in the game is equivalent to the fixed-point theorem.</p> <p>We propose a novel two-player board game on a triangulated square. We prove that there is no draw in the game, which can be considered as a generalization to the corresponding statement of the Hex game.</p>
Short Bio	<p>Hiroki Sasaki is a student at the Graduate School of Mathematics, Kyushu University.</p> <p>He specializes in combinatorics and board games. He enjoys playing and watching board games such as Shogi and Mahjong. He also creates board games and will be exhibiting at a board game event in Tokyo in December. His motto is to research interesting board games from both an academic and hobbyist perspective.</p>