

RELATING GAMES OF Menger, COUNTABLE FAN TIGHTNESS, AND SELECTIVE SEPARABILITY

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ABSTRACT. By adapting techniques of Arhangel'skii, Barman, and Dow, we may equate the existence of perfect-information, Markov, and tactical strategies between two interesting selection games. These results shed some light on Gruenhage's question asking whether all strategically selectively separable spaces are Markov selectively separable.

1. INTRODUCTION

Definition 1. Foo

Bar.

Question 2. Does SS^+ imply SS^{++} ?

2. CFT , $CDFT$ AND SS

Theorem 3 (Lemma 2.7 of). *The following are equivalent for any topological space X .*

- X is SS .
- X is separable and $CDFT$.
- X has a countable dense subset D where $CDFT_x$ holds for all $x \in D$.

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