GAME-THEORETIC VARIANTS OF SPLITTING NUMBER

TAKASHI YAMAZOE

We study game-theoretic variants of the splitting number $\mathfrak{s}$. We prove that some of them are equal to classical cardinal invariants and two of them are not. Moreover, though the two numbers share almost the same rule of the game, we show that they are consistently different, and hence the slight gap of the rule is actually crucial in this sense. This talk focuses on this consistency result.

This is a joint work with Jorge Antonio Cruz Chapital, Tatsuya Goto and Yusuke Hayashi.

References

[CGHY24] Jorge Antonio Cruz Chapital, Tatsuya Goto, Yusuke Hayashi, and Takashi Yamazoe. Game-theoretic variants of splitting number. Preprint, arXiv:2412.19556, 2024.