

“There is No Minimal Essentially Undecidable Theory”

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**Abstract**

In this talk, I explain a result obtained in collaboration with Fedor Pakhomov and Juvenal Murwanashyaka. The result tells us that there is no interpretability minimal theory among the essentially undecidable RE theories. The talk will give some background both on the question and on the various notions of undecidability. I will sketch the main ideas of the two arguments that we found to prove the result.