TLPP and its Surroundings

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Abstract

Towsner's transfinite leftmost path principle TLPP plays a central role to study the complexity of theorems whose complexity lies between ATR_0 and $\Pi^1_1\text{-}\mathsf{CA}_0$ in the context of reverse mathematics. In this talk, I will consider some theorems related to TLPP from the point of view of reverse mathematics and computability-theoretic reductions.