

Expansion of the real subanalytic substructure by the power functions/exponential

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Abstract

It was conjectured by C. Miller and L. van den Dries that the structure $\mathbb{R}_{\text{an,Pow}}$ is maximal among the proper reducts of $\mathbb{R}_{\text{an,exp}}$ (in the sense of definability). I will review some known results hinting to the veracity of this conjecture and I will show that there is no greatest proper reducts of $\mathbb{R}_{\text{an,exp}}$.