1106-03-1462 **Joel Nagloo*** (jnagloo@gc.cuny.edu). *The unimodularity conjecture in DCF_0.*

In [1], Freitag and Scanlon showed that the algebraic differential equation satisfied by the j-function defines a non-ω-categorical geometrically trivial strongly minimal set. This provided a counterexample to the ω-categoricity conjecture in DCF_0. In this talk we will look at a weakening of the above conjecture; one arising from the work on the second Painlevé equations [2]:

Conjecture 1. In DCF_0 every geometrically trivial strongly minimal set is unimodular.

After recalling few facts about unimodularity in DCF_0, we will talk about whether the j-function also gives a counterexample to Conjecture 1.

References

[1] J. Freitag and T. Scanlon, *Strong minimality of the j-function*, submitted on the arXiv as arXiv:1402.4588, 2014.

[2] Joel Nagloo, *Geometric Triviality of the Strongly Minimal Second Painlevé equations*, submitted on the arXiv as arXiv:1302.4338, 2013.

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