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Lou van den Dries* (vddries@illinois.edu). *The surreals as a differential field.*

Berarducci and Mantova have recently equipped the field of surreal numbers with a natural derivation. In joint work with Aschenbrenner and Van der Hoeven we have shown that the resulting differential field of surreals is elementarily equivalent to the differential field of transseries. The model theory of the latter is the subject of our book

“Asymptotic Differential Algebra and Model Theory of Transseries”

Here is a link to it: <http://arxiv.org/abs/1509.02588> (Received September 10, 2015)