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Eyvind Martol Briseid* (briseid@mathematik.tu-darmstadt.de), Department of Mathematics, Technische Universität Darmstadt, Schlossgartenstrasse 7, 64289 Darmstadt, Germany. *Proof mining in nonstandard analysis*. Preliminary report.

We will present a functional interpretation for nonstandard arithmetic in all finite types, and discuss its possible use in unwinding proofs based on nonstandard methods.

This is joint work with Benno van den Berg and Pavol Safarik. (Received September 14, 2010)