ERRATA

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Page 420, lines 6 and 14. For "Eleventh", read "Twelfth". The Eleventh Gödel Lecture was to have been presented at the 2000 Annual Meeting by J. Barwise, who, sadly, died prior to the meeting. The number of his undelivered Gödel Lecture is reserved in his honor.

Pages 82–163. The following abstract was inadvertently omitted from the contributed talks in the meeting report of the 2000 European Summer Meeting LC2000, in the first issue of this volume. We regret this omission.

► R. CLUCKERS[1] AND D. HASKELL, *Invariants of semi-algebraic p-adic sets*.
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We consider p-adic semi-algebraic sets, that is, definable subsets of $\mathbb{Q}_p^k$ in the language of fields with nth power predicates in which we have quantifier elimination [2]. We prove via an explicit construction that there is a definable bijection between $\mathbb{Z}_p$ and $\mathbb{Z} \setminus \{0\}$. It follows that there is no non-trivial Euler characteristic on $\mathbb{Q}_p$. This result can analogously be obtained for a large class of Henselian valued fields with appropriate language.

More generally, we use the cell decomposition [1] to prove that there is a definable bijection between two definable sets if and only if they have the same dimension (as defined in [3]). The proof works also for finite field extensions of $\mathbb{Q}_p$.

[1] J. Denef, *p-adic semi-algebraic sets and cell decomposition*, ***Journal für die Reine und Angewandte Mathematik***, vol. 369 (1986), pp. 154–166.

[2] A. Macintyre, *On definable subsets of p-adic fields*, ***Journal of Symbolic Logic***, vol. 41 (1976), pp. 605–610.

[3] P. Scowcroft and L. van den Dries, *On the structure of semialgebraic sets over p-adic fields*, ***The Journal of Symbolic Logic***, vol. 53 (1988), no. 4, pp. 1138–1164.

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