THE BULLETIN OF SYMBOLIC LOGIC
Volume 13, Number 3, Sept. 2007

# 2006 ANNUAL MEETING OF THE ASSOCIATION FOR SYMBOLIC LOGIC — ADDENDUM

**Université du Québec à Montréal**
**Montréal, Québec, Canada**
**May 17–21, 2006**

The following abstract, given by title, did not appear in the meeting report published in this BULLETIN vol. 13 (2007), no. 1, pp. 120–145. This error is corrected below.

## Abstracts of papers presented by title

► CYRUS NOURANI, *Functional generic filters*.
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The author (1994) defined a small-complete category $\mathbf{L_{\omega 1,B}}$ from $L_{\omega 1,B}$. The category is the preorder category defined by the formula ordering defined on Kiesler fragments. Generic diagrams are defined such that there is a proper diagram defined with a specific function set. The function set might be $\Sigma 1$ Skolem functions for the set theory example. Positive forcing had defined T$*$ to be a theory T on $L_{\omega 1,B}$ augmented with induction on the generic diagram functions. Based on the infinitary counterpart to the Robinson's consistency functorial Fragment Limit Chain models, were defined (1996) proving there are elementary chain *FLC* model for L, where $L_{\omega 1,B}$.

THEOREM 1. $\wp(\mathrm{T}*)$ *is generating a generic model with the F-generic filter.*

THEOREM 2 (Nourani 1981). *The positive forcing* T$*$ *is a F-generic filter.*

Lemma T$*$ is a principal proper filter.

PROPOSITION 1. *Let* I *be the set* T$*$. *Let* $\phi(x1 \dots xn)$ *be a Horn formula and let* $\mathcal{R}\mathrm{i}$ i $\varepsilon$ I *be models for language* L. *Let* $a1 \dots an\ \varepsilon\ \Pi i\varepsilon \mathrm{I}\ \mathrm{A}i$. *The* $\mathcal{R}$i *are fragment Horn models.*

*If* $\{\mathrm{i}\,\varepsilon\,\mathrm{I} \colon \mathcal{R}\mathrm{i} \models \phi[a1(i)\dots an(i)]\}$ *the direct product over* D *on* $\mathcal{R}\mathrm{i} \models \phi[a\mathrm{ID}\dots an\mathrm{D}]$, *where* D *is the generic filter on* T$*$.

THEOREM 3. *Assume the continuum hypothesis* $2\omega = \omega+$, *then* $\phi$ *is completable in* T$*$ *iff* $\phi$ *is is equivalent to a universal Horn sentence.*

THEOREM 4. $\mathcal{R}$i *is a prime model iff* $\mathcal{R}$i *are elementarily embedded in every countable model of the fragment of* T$*$ *that* $\mathcal{R}$i *models.*

[1] H. J. KEISLER, ***Model theory for infinitary logic***, North Holland, Amsterdam, 1971.

[2] C. F. NOURANI, *Functorial model theory and infinite language categories*, September 1994, presented to the Association for Symbolic Logic, January 1995, San Francisco. See this BULLETIN 1996.


1079-8986/07/1303-0006/$1.10