

CAHIERS DE TOPOLOGIE ET GÉOMÉTRIE DIFFÉRENTIELLE CATÉGORIQUES

CTGDC

TAC : theory and applications of categories

Cahiers de topologie et géométrie différentielle catégoriques, tome 48, n° 2 (2007), p. 154-158

http://www.numdam.org/item?id=CTGDC_2007__48_2_154_0

© Andrée C. Ehresmann et les auteurs, 2007, tous droits réservés.

L'accès aux archives de la revue « Cahiers de topologie et géométrie différentielle catégoriques » implique l'accord avec les conditions générales d'utilisation (<http://www.numdam.org/conditions>). Toute utilisation commerciale ou impression systématique est constitutive d'une infraction pénale. Toute copie ou impression de ce fichier doit contenir la présente mention de copyright.

NUMDAM

Article numérisé dans le cadre du programme
Numérisation de documents anciens mathématiques
<http://www.numdam.org/>

T_AC : Theory and Applications of Categories

Hereafter we give some information about the electronic Journal:
Theory and Applications of Categories (T_AC), ISSN 1201-561X

Contents of VOLUME 16, 2006

1. Monads of effective descent type and comonadicity, Bachuki **ME-SABISHVILI**, 1-45
2. Action groupoid in protomodular categories, Dominique **BOURN**, 46-58
3. Inverting weak dihomotopy equivalence using homotopy continuous flow, Philippe **GAUCHER**, 59-83
4. Frobenius algebras and ambidextrous adjunctions, Aaron D. **LAUDA**, 84-122
5. Every Grothendieck topos has a one-way site, Colin **MCLARTY**, 123-126
6. Points of affine categories and additivity, A. **CARBONI** and G. **JANELIDZE**, 127-131
7. Preserving homology, Michael **BARR**, 132-143
8. Thin fillers in the cubical nerves of omega-categories, Richard **STEINER**, 144-173
9. Free infinity-categories, Volodymyr **LYUBASHENKO** and Oleksandr **MANZYUK**, 174-205
10. A characterization of quantic quantifiers in orthomodular lattices, Leopoldo **ROMN**, 206-217
11. Exponentiability in lax slices of **Top**, Susan **NIEFIELD**, 218-235
12. Closedness properties of internal relations. I: A unified approach to Mal'tsev, unital and subtractive categories, Zurab **JANELIDZE**, 236-261
13. Closedness properties of internal relations. II: Bourn localization,

Zurab **JANELIDZE**, 262-282

14. Categorical structures enriched in a quantaloid: tensored and cotensored categories, Isar **STUBBE**, 283-306

15. Stable meet semilattice fibrations and free restriction categories, J.R.B. **COCKETT** and Xiuzhan **GUO**, 307-341

16. TFT Construction of RCFT correlators. V: Proof of modular invariance and factorisation, Jens **FJELSTAD**, Jurgen **FUCHS**, Ingo **RUNKEL** and Christoph **SCHWEIGERT**, 342-433

17. Spectra of finitely generated Boolean flows, John F. **KENNISON**, 434-459

18. Paths in double categories, R. J. Mac G. **DAWSON**, R. **PAIRE**, and D. A. **PRONK**, 460-521

19. Numerology in topoi, Peter **FREYD**, 522-528

20. Categorical representations of categorical groups, John W. **BARRETT** and Marco **MACKAAY**, 529-557

21. Compactifications, $C(X)$ and ring epimorphisms, W.D. **BURGESS** and R. **RAPHAEL**, 558-584

22. On categorical crossed modules, P. **CARRASCO**, A.R. **GARZON** and E.M. **VITALE**, 585-618

23. Equivalence of 2D-multitopic category and ana-bicategory, **PARAM JYOTHI Reddy R.**, 619-667

24. Descent for Monads, Pieter **HOFSTRA** and Federico **DE MARCHI**, 668-699

25. Topological $*$ -autonomous categories, Michael **BARR**, 700-708

26. Quotient models of a category up to directed homotopy, Marco **GRANDIS**, 709-735

27. Categories of components and loop-free categories, Emmanuel **HAUCOURT**, 736-770

28. Pullback and finite coproduct preserving functors between categories of permutation representations, Elango **PANCHADCHARAM** and Ross **STREET**, 771-784

29. Categorified algebra and quantum mechanics, Jeffrey **MORTON**, 785-854

30. A cohomological description of connections and curvature over posets,

John E. **ROBERTS** and Giuseppe **RUZZI**, 855-895

31. Generating families in a topos, Toby **KENNEY**, 896-922

32. Copower objects and their applications to finiteness in topoi, Toby **KENNEY**, 923-956

Contents of VOLUME 17, 2006: Chu spaces: theory and applications*

Preface: The guest editors, 1-9

1. The Chu construction: history of an idea, Michael **BARR**, 10-16

2. Coherence of the double involution on *-autonomous categories, J.R.B. **COCKETT**, M. **HASEGAWA** and R.A.G. **SEELY**, 17-29

3. A Parigot-style linear lambda-calculus for full intuitionistic linear logic, Valeria **DE PAIVA** and Eike **RITTER**, 30-48

4. The Dialectica interpretation of first-order classical affine logic, Masaru **SHIRAHATA**, 49-79

5. Approximable Concepts, Chu spaces, and information systems, Guo-Qiang **ZHANG** and Gongqin **SHEN**, 79-102

6. An extended view of the Chu-construction, Jurgen **KOSLOWSKI**, 103-126

(Other papers might be added to this volume)

* The Editors of TAC wish to thank Valeria **DE PAIVA** and Vaughan **PRATT** who acted as guest editors for this special volume.

General Information

THEORY AND APPLICATIONS OF CATEGORIES (ISSN 1201-561X) will disseminate articles that significantly advance the study of categorical algebra or methods, or that make significant new contributions to mathematical science using categorical methods. The scope of the journal includes: all areas of pure category theory, including higher dimensional categories; applications of category theory to algebra, geometry and topology and other areas of mathematics; applications of category theory to computer science, physics and other mathematical sciences; contributions

to scientific knowledge that make use of categorical methods.

Articles appearing in the journal have been carefully and critically refereed under the responsibility of members of the Editorial Board. Only papers judged to be both significant and excellent are accepted for publication.

The method of distribution of the journal is via the Internet tools WWW/ftp. The journal is archived electronically and in printed paper format. The full table of contents is at www.tac.mta.ca/tac/

Subscription/Access to articles

Individual subscribers receive abstracts of accepted papers by electronic mail. Compiled T_EX (.dvi), Postscript and PDF files of the full articles are available by Web/ftp. Details will be e-mailed to new subscribers and are available by WWW/ftp. To subscribe, send a request to: tac@mta.ca including a full name and postal address. The journal is free for individuals. For institutional subscription, send enquiries to the Managing Editor, Robert Rosebrugh, rrosebrugh@mta.ca.

Information for authors

The typesetting language of the journal is T_EX, and L_AT_EX is the preferred flavour. T_EX source of articles for publication should be submitted by e-mail directly to an appropriate Editor. They are listed below. Please obtain detailed information on submission format and style files from the journal's WWW server at the URL: <http://www.tac.mta.ca/tac/>. You may also write to tac@mta.ca to receive details by e-mail.

Editorial board

Robert ROSEBRUGH, Mount Allison University (Managing Editor),
rrosebrugh@mta.ca

Michael BARR, McGill University (Associate Managing Editor),
barr@math.mcgill.ca

Richard BLUTE, Université d'Ottawa, rblute@mathstat.uottawa.ca

Lawrence BREEN, Université Paris 13, breen@math.univ-paris13.fr
 Ronald BROWN, University of Wales, Bangor, r.brown@bangor.ac.uk
 Aurelio CARBONI, Università dell'Insubria, aurelio.carboni@uninsubria.it
 Valeria de PAIVA, Palo Alto Research Center, paiva@parc.xerox.com
 Ezra GETZLER, Northwestern University, getzler@math.northwestern.edu
 Martin HYLAND, University of Cambridge, M.Hyland@dpmms.cam.ac.uk
 Peter T. JOHNSTONE, University of Cambridge, ptj@dpmms.cam.ac.uk
 G. Max KELLY, University of Sydney, maxk@maths.usyd.edu.au
 Anders KOCK, University of Aarhus, kock@imf.au.dk
 Stephen LACK, University of Western Sydney, s.lack@uws.edu.au
 F. William LAWVERE, State University of New York at Buffalo,
wlawvere@acsu.buffalo.edu
 Jean-Louis LODAY, Université Louis Pasteur et CNRS, Strasbourg,
loday@math.u-strasbg.fr
 Ieke MOERDIJK, University of Utrecht, moerdijk@math.uu.nl
 Susan NIEFIELD, Union College, niefiels@union.edu
 Robert PARE, Dalhousie University, pare@mathstat.dal.ca
 Brooke SHIPLEY, University of Illinois at Chicago, bshipley@math.uic.edu
 Jiri ROSICKY, Masaryk University, rosicky@math.muni.cz
 James STASHEFF, University of North Carolina, jds@math.unc.edu
 Ross STREET, Macquarie University, street@math.mq.edu.au
 Walter THOLEN, York University, tholen@mathstat.yorku.ca
 Myles TIERNEY, Rutgers University, tierney@math.rutgers.edu
 Robert F. C. WALTERS, University of Insubria, robert.walters@uninsubria.it
 R. J. WOOD, Dalhousie University, rjwood@mathstat.dal.ca