The Bulletin of Symbolic Logic
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NOTICES

- The 2012 ASL Election. The ASL membership has elected Alasdair Urquhart (Toronto) as President, Ulrich Kohlenbach (Darmstadt) as Vice President, Jeremy Avigad (Carnegie Mellon) and Anand Pillay (Leeds) to the Executive Committee, Roman Kossak (CUNY) to a one-year Executive Committee term (to complete the remaining year of Kohlenbach's EC term), and Joel Hamkins (CUNY) and Kazuyuki Tanaka (Sendai) to the Council. Their terms of office (except for Kossak) are for three years beginning January 1, 2013. The Nominating Committee consisted of Michael Benedikt, Penelope Maddy, David Marker (Chair), Yiannis Moschovakis, Richard Shore, Andreas Weiermann, Philip Welch, and Carol Wood.

- The 2012 Sacks Prize Awarded to P. Simon. The ASL Committee on Prizes and Awards (with C. Wood and A. Nies replacing E. Hrushovski and T. Slaman, who recused themselves for these deliberations) has selected Pierre Simon of the Hebrew University of Jerusalem as the recipient of the 2012 Sacks Prize. The prize consists of a cash award plus five years free membership in the ASL for each awardee.

  Simon received his Ph.D. in 2012 from the Université Paris-Sud, under the supervision of Elisabeth Bouscaren. The Prizes and Awards Committee notes that his thesis, *Ordre et stabilité dans les théories NIP*: "provides new model theoretic tools and concepts for the study of NIP structures, a generalization of stability that also encompasses o-minimal structures, algebraically closed valued fields, and the p-adics. The thesis makes substantial progress at the full generality of NIP theories, and at the same time obtains new results and new proofs in classical settings. It stands out for its depth, originality, and elegance in seeking the appropriate tools and dividing lines for the subject."

- Shelah Awarded 2013 American Mathematical Society Steele Prize for Seminal Contribution to Research. The American Mathematical Society has awarded Saharon Shelah the 2013 Leroy P. Steele Prize for Seminal Contribution to Research for his book, *Classification Theory and the Number of Nonisomorphic Models* (Studies in Logic and the Foundations of Mathematics, 92, North-Holland Publishing Co., Amsterdam–New York, 1978; 2nd edition, 1990). The Steele Prize, presented annually by the A.M.S., is one of the highest distinctions in mathematics.

  The prize citation states in part: "Before Shelah's work, the great theorem of pure model theory was Morley's theorem on categoricity. It concerned a class of theories whose uncountable models are completely determined by their cardinality. Shelah visualized a vast extension of the problem to a classification of arbitrary first-order theories, based on the number of models they may have of a given uncountable size. Solving this problem required some twenty years that made model theory into a mature field, completely transforming its aims, methods, and ability to connect to algebra and geometry."

- Discounted Dues for New ASL Individual Members. The ASL now offers a 50% discount on dues for new individual members during each of the first two years of membership. For more information, visit `http://www.aslonline.org/membership-individual.html`.

- Free Individual ASL Membership Program for Individuals in Developing Economies. The ASL invites applications for an initial two-year free membership in the Association for new or lapsed members from countries classified as developing economies. The list, found at http://www.aslonline.org/worldbankeconomies.html, includes Brazil, Bulgaria, China, Colombia, India, Iran, Russia, South Africa, and many other countries classified as 'upper middle income' or below on the World Bank's annual list for four of the last five years. To apply, please send an email to the ASL Committee on Membership at asl-membership@googlegroups.com. Include your name, full mailing address, and your academic affiliation. For information about the ASL and membership benefits visit http://www.aslonline.org/membership-individual.html. After the initial two year period new members under this program will pay the reduced membership dues, currently at US$18 (see below), as long as their country of residence is on the ASL's list of developing economies.

- Reduced Dues for Individuals and Institutions in Developing Economies. The ASL offers reduced dues for individual and institutional members in developing economies. For 2013, the reduced dues are US$18 for individuals, US$130 for institutional basic membership, and US$180 for institutional full membership. These dues apply to individuals and institutions residing in countries whose economies are classified as 'upper middle income' or below on the World Bank's annual list for four of the last five years. For further information, visit http://www.aslonline.org/membership_outreach.html or contact the ASL Business Office: ASL, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, New York 12604, USA; Tel: 1-845-437-7080; Fax: 1-845-437-7830; email: asl@vassar.edu.
- Reduced Dues for Unemployed Members. The ASL offers reduced dues for individual members who are unemployed. For 2013, the reduced dues are US$44. For further information, visit http://www.aslonline.org/membership-individual.html or contact the ASL Business Office: ASL, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, New York 12604, USA; Tel: 1-845-437-7080; Fax: 1-845-437-7830; email: asl@vassar.edu.
- Emeritus ASL Individual Membership. The ASL offers retired individual members two membership options. Emeritus membership includes all the privileges of regular individual membership and is available to retired individuals who have been members of the ASL for 15 years. The dues for Emeritus membership for 2013 are US$44. The privileges attached to Retired membership (previously called emeritus membership) include the ASL Newsletter and the right to vote in ASL elections, but do not include subscriptions to the ASL journals. Retired membership is offered to retired individuals who have been members of the Association for 20 years and is free. For more information about both options, visit http://www.aslonline.org/membership-individual.html.
- Book and Journal Discounts for ASL Members. Several publishers now offer discounts on books and journals to ASL members. For a detailed description of these discounts, visit http://www.aslonline.org/members-discounts.html on the ASL website, or write to the ASL Business Office.
- Older ASL Books Available Online at Project Euclid. The ASL has made available online via Project Euclid those older volumes of Lecture Notes in Logic and Perspectives in Logic owned by the ASL and published in collaboration with Springer-Verlag. The available Lecture Notes in Logic books (volumes 1-12) can be found at http://projecteuclid.org/DPubS?service=UI&version=1.0&verb=Display&handle=euclid.lnl, and the available Perspectives volumes (those owned by the ASL) can be found at http://projecteuclid.org/DPubS?service=UI&version=1.0&verb=Display&handle=euclid.pl. The ASL continues to sell original print copies of those Lecture Notes and Perspective volumes of which there is sufficient stock; information about purchasing these volumes can be found at http://www.aslonline.org/books.html.
- Access to Current JSL and BSL for ASL Members via Project Euclid. Access to the full-text of current issues of *The Bulletin of Symbolic Logic* and *The Journal of Symbolic Logic* is available to all ASL members electronically via Project Euclid. Individual members who wish

to gain access should follow these instructions: (1) go to `http://projecteuclid.org`; (2) click on 'Log in' in the top right-hand corner of the screen; (3) click on 'create a profile here' in the center of the login page; (4) fill in at least the required fields in the top half of the form, setting Euclid ID and Password to anything you wish, but remember these for future logins; (5) go to the bottom half of the form ('Personal Subscription Registration'); (6) select the *Association for Symbolic Logic Journals* and in the subscriber code box enter your individual membership ID number (you will find this number on your journal mailing label); (7) at the bottom of the form, click the 'Create Profile' button, at which point users should then see a confirmation screen and should have access to full-content of the BSL and JSL. If you need help obtaining your membership ID number, contact our membership fulfillment agent at the American Mathematical Society at `asl-service@ams.org`. If you have any trouble using the Personal Subscription Registration form, please contact `Euclid-L@cornell.edu`.

- Access to JSL and BSL back issues for ASL Members via JSTOR. Access to the full-text of *The Journal of Symbolic Logic* for the years 1936 - 2007 is available to all ASL members via JSTOR. Access to the full-text of *The Bulletin of Symbolic Logic* for the years 1995–2011 also is available to all ASL members via JSTOR. Instructions for activating a new or existing account will be emailed to you directly from JSTOR User Services (`support@jstor.org`) within a week of your new ASL membership or renewal. If you do not receive this email, or have not provided the ASL with an email address, please contact the ASL Member Service provider at the American Mathematical Society (`asl-service@ams.org`).

- Student Travel Awards: The 2013 ASL European Summer Meeting and other ASL or ASL-Sponsored Meetings. The ASL will make available modest travel awards to graduate students in logic and (for the European Summer Meeting only) to recent Ph.D.'s so that they may attend the 2013 ASL European Summer Meeting in Évora, Portugal; see below for information about these meetings. Student members of the ASL also may apply for travel grants to other ASL or ASL-sponsored meetings. To be considered for a Travel Award, please (1) send a letter of application, and (2) ask your thesis supervisor to send a brief recommendation letter. The application letter should be brief (preferably one page) and should include: (1) your name; (2) your home institution; (3) your thesis supervisor's name; (4) a one-paragraph description of your studies and work in logic, and a paragraph indicating why it is important to attend the meeting; (5) your estimate of the travel expenses you will incur; (6) (for citizens or residents of the USA) citizenship or visa status; and (7) (voluntary) indication of your gender and minority status. Women and members of minority groups are strongly encouraged to apply. In addition to funds provided by the ASL, the program of travel grants is supported by a grant from the US National Science Foundation; NSF funds for meetings outside of North America may be awarded only to students at USA universities and to citizens and permanent residents of the USA. Air travel paid for using NSF funds must be on a US flag carrier. Application by email is encouraged; put "ASL travel application" in the subject line of your message.

  For the 2013 ASL European Summer Meeting, applications and recommendations should be received before the deadline of March 25, 2013, by the Organizing Committee: LC2013, CMAF-Universidade de Lisboa, Avenida Professor Gama Pinto 2, 1649-003 Lisboa, Portugal; email: `lc2013@ptmat.fc.ul.pt`.

  For ASL student member travel grants to ASL or ASL-sponsored meetings (other than the 2013 North American Annual Meeting and the 2013 European Summer Meeting), applications and recommendations should be received at least three months prior to the meeting at the ASL Business Office: ASL, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, New York 12604, USA; Fax: 1-845-437-7830; email: `asl@vassar.edu`. Decisions will be communicated at least two months prior to the meeting.

- 2013 ASL North American Annual Meeting. *May* 8–*May* 11, 2013, *Waterloo, Ontario, Canada*. The invited speakers include: M. Aschenbrenner, U. Andrews, R. Blute, D. Kerr, C. McLarty, D. Sinapova, T. Slaman, M. Viale, V. Voevodsky, and F. Wagner. The following special sessions also are planned: Applications of logic to operator algebras, Computable structures/model theory, Differential categories and differential lambda calculi, Model theory, Set theory, and Univalent foundations. The members of the Program Committee are: S. Awodey, I. Farah (Chair), A. Kanamori, R. Moosa, J. Reimann, and P. Scott. The Local Organizing Committee includes: S. Ben-David, B. Csima (Chair), D. DeVidi, R. Moosa, and R. Willard.

- 2013 ASL European Summer Meeting (Logic Colloquium '13). *July* 22–27, 2013, *Évora, Portugal*. The Program Committee members are: M. Baaz, M. Benedikt, M. Edmundo, S. Fuchino, V. Harizanov, P. Mancosu, K. Tent, and B. Velickovic (Chair). The Local Organizing Committee includes: S. Alves, I. van den Berg, M. Edmundo (Chair), F. Ferreira, D. Graça, M. Mamino, M. Martins, L. Pinto, P. Quaresma, and J. Rasga. For further information, visit `http://ptmat.fc.ul.pt/LC2013/`.

  Abstracts of contributed talks submitted by ASL members will be published in *The Bulletin of Symbolic Logic* if they satisfy the Rules for Abstracts (see below). Abstracts—hard copy or email—should be received before the deadline of March 29, 2013 at the official meeting address: LC2013, CMAF-Universidade de Lisboa, Avenida Professor Gama Pinto 2, 1649-003 Lisboa, Portugal; email: `lc2013@ptmat.fc.ul.pt`.

- Rules for Abstracts. The rules for abstracts of contributed talks at ASL meetings (including those submitted "by title") may be found at the website `http://www.aslonline.org/rules_abstracts.html` . Please note that abstracts *must* follow the rules as set forth there; those which do not conform to the requirements will be returned immediately to the authors submitting them. Revised abstracts that follow the rules will be considered if they are received by the announced deadline.

- Fourth World Congress and School on Universal Logic (UNILOG 2013). *March* 29-*April* 7, 2013, *Rio de Janeiro, Brazil*. The invited keynote speakers include: I. Anellis, A. Avron, O. Bueno, A. Burdman Feferman, H. Burkhardt, M. Busaniche, R.M. Cesar Jr, R. Casati, A. Ciabattoni, B. Coecke, S. Colton, N. da Costa, D. Diecks, I. D'Ottaviano, J.M. Dunn, S. Feferman, H. Freytes, A. Fuhrmann, A. Galton, J. Ginzburg, Y. Gurevich, E.H. Haeusler, J. Hintikka, B. Konikowska, A. Koslow, V. Marra, D. Mundici, S. Negri, H. Ono, S. Read, G. Sambin, J. Seldin, G. Sher, S.-J. Shin, P. Suppes, B. Tversky, S. Ural, H. Wansing, A. Wisniewski, J. Wolenski, and E. Zalta. The school is intended for Ph.D. students, postdoctoral students, and young researchers interested in logic, artificial intelligence, mathematics, philosophy, linguistics, and related fields. A broad range of tutorials will be offered; the list (with links to descriptions) can be found at `http://www.uni-log.org/start4.html`. The members of the Scientific Committee are: A. Avron, J. van Benthem, R. Brady, C. Caleiro, W. Carnielli, M. Dunn, D. Gabbay, H. He, G. Jaeger, A. Koslow, I. Nemeti, V. Vasyukov, and H. Wansing. The Chair of the Organizing Committee is J.-Y. Béziau. For further information, visit `http://www.uni-log.org`. (ASL Sponsored Meeting.)

- Logic and Interactions. *April* 29–*May* 3, 2013, *Luminy, France*. This event, to be held at the CIRM in Luminy, is the final conference of the European Community funded Marie Curie Initial Training Network in Mathematical Logic, *From Mathematical Logic to Applications* (MALOA). In keeping with the training aims of the network, the meeting will bring together established leaders in the field with younger scientists from both inside and outside the network. The invited speakers include: U. Berger, S. Buss, A. Durand, J. Kirby, M. Laskowski, A. Lewis, A. Macintyre, J. Paris, P. Pudlak, P. Schuster, K. Tent, T. Tsankov, and J. Väänänen. The members of the Scientific Committee are: Z. Chatzidakis, R. Kervarc, J. Krajíček,

D. Macpherson (Chair), H. Schwichtenberg, and B. Velickovic. For further information, visit `http://www1.maths.leeds.ac.uk/maloa/final%20conference.html`. (ASL Sponsored Meeting.)

- SIXTH YOUNG SET THEORY WORKSHOP. *June* 10–14, 2013, *Oropa, Piemonte, Italy.* The aim of this conference, supported by the European Science Foundation, is to bring together Ph.D. students and postdoctoral researchers in set theory to learn from leading researchers in the field, hear about the latest research, and discuss research issues in a co-operative environment. Tutorials given by senior researchers representing a branch of set theory will be offered by: J. Cummings, S. Friedman, S. Gao, and J. Steel. Invited talks by young researchers will be given by: T. Bice, S. Cramer, L. Motto Ros, V. Torres Perez, and T. Wilson The members of the Scientific Committee are: A. Brooke-Taylor, A. Caicedo, S. Cox, A. Törnquist, and M. Viale (Chair). The Organizing Committee includes A. Andretta, R. Camerlo, and M. Viale. For more information, visit `http://www2.dm.unito.it/paginepersonali/viale/YST2013/yst2013-home.html`. (ASL Sponsored Meeting.)
- MODEL THEORY 2013. *June* 10–15, 2013, *Ravello, Italy.* Tutorials will be offered by M. Hils, T. Scanlon, and K. Tent. The invited speakers include: M. Aschenbrenner, E. Breuillard, Z. Chatzidakis, A. Chernikov, A. Conversano, A. Fornasiero, P. Habegger, B. Hart, G. Jones, D. Macpherson, J. Melleray, M. Malliaris, R. Moosa, L. Newelski, Y. Peterzil, A. Pillay, Z. Sela, R. Sklinos, H. Towsner, J. Tsimerman, and P. Ugurlu. The members of the Program Committee are: I. Ben Yaacov, P. D'Aquino, E. Hrushovski, E. Jaligot, S. Starchenko, and A. Wilkie. The Organizing Committee includes: P. D'Aquino, A. Fornasiero, L. Spada, and G. Terzo. For further information, visit `http://logica.dmi.unisa.it/Ravello/`. (ASL Sponsored Meeting.)
- TWENTY-EIGHTH ANNUAL ACM/IEEE SYMPOSIUM ON LOGIC IN COMPUTER SCIENCE (LICS 2013). *June* 25–28, 2013, *New Orleans, Louisiana.* The LICS Symposium is an annual international forum on theoretical and practical topics in computer science that relate to logic in a broad sense. Co-located with this event are the Twenty-ninth Conference on the Mathematical Foundations of Programming Semantics (MFPS) and the Twenty-sixth IEEE Computer Security Foundations Symposium. The invited speakers include: R. Alur, J. Halpern (with CSF), N. Lynch, and P. Panangaden. Tutorials will be offered by P. Bouyer-Decitre and J. Rutten (with MFPS). The symposium also will include a special session to mark the eightieth birthday of Dana Scott, with the following invited speakers: S. Awodey, A. Bauer, R. Harper, A. Pitts, and D. Scott. The Program Chair is O. Kupferman, the Workshops Chair is P. Bouyer-Decitre, the General Chair is L. Ong, and the Conference Chair is M. Mislove. The Organizing Committee Chair is L. Ong. For further information, visit `http://lii.rwth-aachen.de/lics/lics13/`. (ASL Sponsored Meeting.)
- COMPUTABILITY IN EUROPE 2013 (CIE 2013): THE NATURE OF COMPUTATION: LOGIC, ALGORITHMS, APPLICATIONS. *July* 1–5, 2013, *Milan, Italy.* This is the ninth in a series organized by Computability in Europe (CiE). The special focus of the conference is on the unexpected and strong changes that studies on Nature have brought in several areas of mathematics, biology, physics, and computer science. Starting from Alan Turing, research on Nature with a computational perspective has produced novel contributions, giving rise even to new disciplines. Tutorials will be offered by G. Brassard and G. Rozenberg. Invited speakers include: U. Endriss, L. Fortnow, A. Karlin, B. Moret, M. Soskova, and E. Szemeredi. Special sessions are planned on: algorithmic randomness; data streams and compression; computational complexity in the continuous world; computational molecular biology; computation in nature; and history of computation. The Program Committee Co-chairs are P. Bonizzoni and V. Brattka, and the Chair of the Organizing Committee is P. Bonizzoni. For more information, visit `http://cie2013.disco.unimib.it`. (ASL Sponsored Meeting.)

- European Joint Conferences on Theory and Practice of Software (ETAPS 2013). *March* 16–24, 2013, *Rome, Italy.* This event is the primary European forum for academic and industrial researchers working on topics relating to Software Science. It comprises several conferences and workshops that may be of interest to logicians. The Chair of the Steering Committee is V. Sassone. For further information visit `http://www.etaps.org/`.
- Seventh International Conference on Language and Automata, Theory and Applications (LATA 2013). *April* 2–5, 2013, *Bilbao, Spain*. LATA is a yearly conference in theoretical computer science and its applications. LATA 2013 will reserve significant room for young scholars at the beginning of their careers. It will aim at attracting contributions from both classical theory fields and application areas (bioinformatics, systems biology, language technology, artificial intelligence). The invited speakers include J.-Y. Cai, K. Etessami, T. Schwentick, and A. Voronkov. Tutorials will be offered by L. Ong on *Languages and automata for higher-order model checking* and J. Ouaknine on *Discrete linear dynamical systems*. The Chair of the Program Committee is C. Martín-Vide and the Co-chairs of the Organizing Committee are C. Martín-Vide and E. Zuazua. For further information, visit `http://grammars.grlmc.com/LATA2013/`.
- Twenty-fourth International Conference on Automated Deduction (CADE-24). *June* 9–14, 2013, *Lake Placid, New York*. This is the major forum for the presentation of research in all aspects of automated deduction. The Conference Co-chairs are C.A. Lynch and N.V. Murray, the Chair of the Program Committee is M.P. Bonacina, the Tutorial Chair is P. Baumgartner, the Workshop and Competition Chair is C. Benzmueller, and the Publicity and Web Chair is G.O. Passmore. For more information, visit `http://www.cade-24.info`.
- Seventh International Conference on Tests and Proofs (TAP 2013). *June* 18–19, 2013, *Budapest, Hungary.* This series is devoted to the synergy of proofs and tests, to the application of techniques from both sides and their combination for the advancement of software quality. The Program Co-chairs are M. Veanes and L. Viganò. For further information, visit `http://www.spacios.eu/TAP2013`.
- Federated Conference on Rewriting, Deduction, and Programming (RDP 2013). *June* 23–28, 2013, *Eindhoven, The Netherlands.* This event comprises the Twenty-fourth International Conference on Rewriting Techniques and Applications (RTA-24) and the Eleventh International Conference on Typed Lambda Calculi and Applications (TLCA 2013). The TLCA 2013 Program Committee Chair is M. Hasegawa and the Steering Committee includes: S. Abramsky, H. Barendregt, P.-L. Curien, M. Dezani-Ciancaglini, M. Hofmann, L. Ong, S.R. Della Rocca, and P. Urzyczyn. The RTA-24 Program Chair is F. van Raamsdonk and the Conference Chair is H. Zantema. The RDP 2013 Organizing Committee members are: S. Claessens, H. Geuvers, J. Giesl, E. de Vink, and H. Zantema. For further information, visit `http://www.win.tue.nl/rdp2013/`.
- Thirty-fourth International Conference on Application and Theory of Petri Nets and Concurrency (PETRI NETS 2013). *June* 24–28, 2013, *Milan, Italy.* The Program Committee Co-chairs are J.M. Colom and J. Desel, the Workshop and Tutorial Co-chairs are S. Haddad and A. Yakovlev, and the Organizing Committee Chair is L. Pomello. For further information, visit `http://www.mc3.disco.unimib.it/petrinets2013/`.
- Twenty-fifth International Conference on Computer Aided Verification (CAV 2013). *July* 13–19, 2013, *Saint Petersburg, Russia.* This conference series dedicated to the advancement of the theory and practice of computer-aided formal analysis methods for hardware and software systems. The Program Chairs are N. Sharygina and H. Veith, and the Steering Committee includes: M. Gordon, O. Grumberg, R. Kurshan, and K. McMillan. The Chair of the Organization Committee is I. Shoshmina. For further information, visit `http://cav2013.forsyte.at/`.

- TWENTY-SECOND ANNUAL CONFERENCE OF THE EUROPEAN ASSOCIATION FOR COMPUTER SCIENCE LOGIC (CSL 2013). *September* 2–5, 2013, *Torino, Italy.* This is the annual conference of the European Association for Computer Science Logic (EACSL). It is intended for computer scientists whose research activities involve logic, as well as for logicians working on issues significant for computer science. The 2013 Ackermann Award, the EACSL annual award for the outstanding dissertation for logic in computer science, will be presented at the meeting. The Chair of the Program Committee is S. Ronchi Della Rocca. The members of the Organizing Committee are: E. De Benedetti, P. Giannini, M. Piccolo, L. Padovani, L. Paolini, S. Ronchi Della Rocca, L. Roversi, and A. Troina. The deadline for submission of abstracts is April 1, 2013, and for papers it is April 8, 2013. For further information, visit `http://csl13.di.unito.it/`.
- FIFTH INTERNATIONAL CONFERENCE ON ALGEBRA AND COALGEBRA IN COMPUTER SCIENCE (CALCO 2013). *September* 3–6, 2013, *Warsaw, Poland.* This series aims to bring together researchers and practitioners with interests in foundational aspects, and both traditional and emerging uses of algebra and coalgebra in computer science. The invited speakers include: A. Bauer, M. Bojańczyk, N. Ghani, and D. Pous. The Co-chairs of the Program Committee are R. Heckel and S. Milius, and the Organizing Committee members are B. Klin and A. Tarlecki. For further information, visit `http://coalg.org/calco13/`.
- NEW ASL BOOKS. To see new books in the ASL's *Lecture Notes in Logic* and *Perspectives in Logic* series, visit `http://www.aslonline.org/books-lnl-available.html` for LNL volumes, and `http://www.aslonline.org/books-perspectives_cup_springer.html` for Perspectives volumes.
- SPECIAL ISSUE OF *Logica Universalis*. Volume 6, Number 3-4 of *Logica Universalis* is a special issue entitled, "Perspectives on the History and Philosophy of Modern Logic: Van Heijenoort Centenary." The guest editor is I.H. Anellis. Abstracts and open source articles are available electronically from Springer-Verlag, at `http://www.springerlink.com/content/x64163142145/`