

BIBLIOGRAPHY (Last update: May 01, 2008)

Daniel Abraham Romano, Ph.D.

Work:

Banja Luka University (BLU), Faculty of Natural Sciences and Mathematics, Department of Mathematics and Informatics, 51000 Banja Luka, 2 Mladen Stojanović Street, B&H; Telephone/fax number 387-51- 319142

Home:

6, Kordunaska Street,

51000 Banja Luka, Bosnia and Herzegovina, Telephone / fax number 387-51-307-174;

E-mail: bato49@hotmail.com; Mobile: 387-(0)65-426994

www.pmfbl.org/matematika/zaposleni/dromano/index.php

I Personal

Date of birth: 11.05.1949.
Place of birth: Višegrad, Yugoslavia
Citizenship: Bosnia and Herzegovina

Present Positions: **Full professor, Department of Mathematics and Informatics, BLU**
President of the Scientific Society of Mathematicians Banja Luka
General Manager of IMVI (International Mathematical Virtual Institute)

II Education

- (9) Diplomatic school, State Department of USA, Washington - New York, 12.02.- 04.03.2000.
- (8) Diplomatic school, Ministry of Foreign Affairs of B&H, Sarajevo, 15.12.1999 -11.02.2000 and 05.03.-23.04.2000.
- (7) Austrian Study Center for Peace and Conflict Resolution, Stadtschlaining, Austria, June 1999.
- (6) Ph.D study, Faculty of Mathematics, Belgrade University 1983/85
D.A.Romano: *Constructive algebra - algebraic structures*; Ph.D. Thesis, Faculty of Mathematics, University of Belgrade, Belgrade 1985. (24.04.1986.) (Supervisors: Prof. Milan Božić, Ph.D.; Prof. Žarko Mijajlović, Ph.D.; Prof. Kosta Došen, Ph.D.)
- (5) Graduate study of mathematics, Faculty of Sciences and Mathematics, University of Sarajevo 1976/78
Intuitionistic reinterpretation of some classical mathematical structures; Master of Science's Thesis, Faculty of Natural Sciences and Mathematics, Department of Mathematics, University of Sarajevo, Sarajevo 1978. (11.11.1978.) (Supervisors: Prof. Vladimir Devide, Ph.D.; Prof. Luka Krnić, Ph.D.; Prof. Veselin Perić, Ph.D.; Prof. Naza Tanović-Miller, Ph.D.)
- (4) Undergraduate study of mathematics and physics, Faculty of Sciences and Mathematics, Department of Mathematics, University of Sarajevo 1969/73
Jacobson radical and structure of semiprime Artin's ring; B.Sci. Thesis, Faculty of Natural Sciences and Mathematics, Department of Mathematics, University of Sarajevo, Sarajevo 1973. (13.09.1974.) (Supervisors: Prof. Veselin Perić, Ph.D.; Prof. Fikret Vajzović, Ph.D; Prof. Dušan Vujaković, Ph.D.)
- (3) Military training: 1968/69
- (2) Secondary school: 1964/68 Gymnasium - Classical high school in Višegrad (B&H)
- (1) Primary school: 1956/64 Višegrad (B&H)

III List of

3.1. Textbooks and books

- [1] *Coequality relations and algebraic structures*; (In preparation)
- [2] *Mathematical Logic, Book 2* (In preparation)

- [B19] *Mathematical Logic, Book I*; Mat-Kol (Banja Luka), – Special issue, number 7(2008), (in Serbian), B5, 1-2, 1-3, 1-163 pp. (In Serbian)
- [B18] *Foundations of mathematics, Part II: Set Theory – Book 2: ZF Axiomatic Set Theory*, Mat-Kol (Banja Luka), Special issue, number 5(2007), B5, 1-154 pp. (In Serbian)
- [B17] *Mathematical Methodic - Practice of Elementary Mathematics, I*; Mat-Kol (Banja Luka), XII(1) (2006), A4, 1-99 pp. (in Serbian)
- [B16] *Foundations of Mathematics, Part II: Set theory – Book 1: Naïve Set Theory*, Mat-Kol (Banja Luka), XII (2) (2006), A5, 1-122 pp. (in Serbian)
- [B15] *Business statistics*, Banja Luka College, Banja Luka 2005. CD, (in Serbian)
- [B14] *Foundation of Mathematics, Part I - Introduction to Mathematical Logic*; Mat-Kol (Banja Luka) Special issue, number 3(2005), Banja Luka 2005, A4, I-II, 1-164 pp. (in Serbian)
- [B13] (with B. Praštalo) *Naïve and Axiomatic Set Theory - Exercises*; Mat-Kol (Banja Luka), X(3)(2004) (in Serbian)
- [B12] *Coequality relations, a survey*; Bull.Soc.Math.Banja Luka, 3(1996),1-36
Math. Rew.: 98j:03F089 (Rudolf J. Taschuer), Zbl.fur Math. 1012.03519
- [B11] *Introduction to Fundaments of Geometry (Exercises)*; Society of Mathematicians of the Republic of Srpska, Banja Luka 1996. (in Serbian)
- [B10] *Introduction to Fundaments of Mathematics (Exercises)*; Society of Mathematicians of the Republic of Srpska, Banja Luka 1996. (In Serbian)
- [B9] *Introduction to Basic Algebra*; Gaudeamus, Banja Luka 1992. (in Serbian)
- [B8] *Exercises in Calculus, book 3*; College of Mechanical Engineering in Bihać, Faculty of Mechanical Engineering Banja Luka, Gaudeamus, Banja Luka 1992. (in Serbian)
- [B7] *Repetition in Elementary Mathematics in Technical Faculty*; Faculty of Mechanical Engineering Banja Luka, Banja Luka 1991. (In Serbian)
- [B6] *Repetition in Elementary Mathematics*; Faculty of Mechanical Engineering, BLU, Banja Luka 1990. (In Serbian)
- [B5] *Exercises in Calculus I*; College of Mechanical Engineering in Bihać, BLU, Bihać 1989. (In Serbian)
- [B4] *Analyze of Real Mapping*; College of Mechanical Engineering in Bihać, BLU, Bihać 1981. (In Serbian)
- [B3] (with I.Čavlović) *Exercises in Elementary Mathematics*; College of Mechanical Engineering in Bihać, BLU, Bihać 1981. (In Serbian)
- [B2] (with N.Antonijević, M.Ridzal) *Exercises in Calculus I, book 2*; Faculty of Mechanical Engineering, BLU, Banja Luka 1980. (In Serbian)
- [B1] (with N.Antonijević, M.Ridzal) *Exercises in Calculus I, book 1*; Faculty of Mechanical Engineering, BLU, Banja Luka 1979. (In Serbian)

3.2. Articles

Articles in progress:

- [x7] *What is mathematics and who are mathematicians?* A4, 1-13 pp. (In preparation) (In Serbian)
- [x6] *Constructive Coideal Theory of Commutative Ring - a Review*; 1-32 pp, (In preparation)
- [x5] *A Theorem on Coequality Relational Systems*; 1-8 pp. *Mathematica Bohemica*, ISSN 0862-7959 (May ?, 2008) (In preparation)
- [x4] *Some Remarks on Mapping between Relational Systems*; 1-7 pp., 12th Serbian Mathematical Congress (August – September 2008) (In preparation)
- [x3] (with D.Bogdanić, S.Crvenković, M.Mitrović, B.Sukara-Čelić and M.Vinčić) *Quasi-antiorders and Anti-ordered Copartitions of Corresponding Coequality Relations*; 1-18 pp. (In preparation)
- [x2] (with S.Crvenković and M.Mitrović) *On Positive Quasi-antiorder in Semigroup with Apartness*; 1-17 pp. (S.Crvenković, 19.06.2007); Second version (18.11.2007); Third version (25.12.2007); Fourth version (09.02.2008) (In preparation for submitting to a journal.)
- [x1] *A View on Old Problems in Philosophy of Mathematics*, 1-10 pp., *Philosophia Mathematica*, ISSN(e) 1744 – 6406, ISSN (p) 0031-8019 (16.03.2008)

Articles submitted in journals:

- [130] *A Note on Strongly Regular Coequality Relation in Anti-ordered Set*; 1-6 pp. *Bulletin of the Belgian Mathematical Society – Simon Steven*, (28.04.2008)
- [129] *A Note of Retract Extension of Ordered Set with Apartness*; 1-7 pp. *Logic and Analysis*, ISSN 1863-3617, (16.04.2008)
- [128] *Extension of Ordered Set with Apartness*; 1-17 pp. *Logic and Analysis*, ISSN 1863-3617, (16.04.2008)
- [127] *The Lattice of Regular Coequalities*; 1-7 pp. *Miskolc Math. Notes*, ISSN 1787-2405 (p), ISSN 1877-2413 (o)

- (April 08, 2008 and 30.04.2008.)
- [126] *Quotient of a Consistent Subset by an Element – Constructive Point of View*; International Mathematical Forum, ISSN 1312-7594, (17.03.2008), 1-13 pp.
 - [125] (with D.Jojic) *Quasi-antiorder Relational Systems*; 1-8 pp. International Journal of Contemporary Mathematical Sciences, ISSN 1312-7586, (17.03.2008)
 - [124] (with S.Crvenković) *An Essay on Mathematical Education in the Republic of Srpska, B&H*, 1-9 pp, International Journal of Mathematics Teaching and Learning, ISSN (e) 1473-0111, (16.03.2008)
 - [123] *A Construction of Maximal Matrix Semigroup Anticongruence*; 1-10 pp. International Journal of Algebra, ISSN 1312-8868, (08.03.2008)
 - [122] *Extension of Rectangular Band Anticongruence from Subsemigroup to Semigroup*; 1-8 pp. Filomat, ISSN 0354-5180, (05.03.2008)
 - [121] *A Review of Isomorphism Theorems of Anti-ordered Sets and Semigroups with Apartness*; 1-9 pp. Surveys in Mathematics and its Applications, ISSN 1842-6298 (03.03.2008)
 - [120] *A Remark on Regular Anti-orders*, 1-6 pp. Canadian Mathematical Bulletin, ISSN 0008-4395, (27.02.2008)
 - [119] *On Quasi-antiorders and Coequality Relations*; 1-12 pp. Mathematical Research Letters, ISSN 1073-2780, (15.12.2007 and 14.01.2008)
 - [118] *A Construction of Antiorder Relation on Factor- Semigroup by a Consistent Subset*; 1-8 pp, Kragujevac J. of Math., ISSN 1450-9628 (07.09.2007 and 09.10.2007.)
 - [117] *On Positive Mappings from Semigroup into Anti-ordered set*; 1-6 pp. Facta Universitatis, Ser. Math. Inf., ISSN 0352-9665, (19.06.2007)
 - [116] *Induction of Quasi-antiorder by Anticongruence on Semigroup*; 1-4 pp. Novi Sad J. of Mathematics, ISSN 1450-5444 (May 03, 2007)
 - [115] *Quasi-antiorder on Semigroup Generated by Coradical of Principal Consistent Subsets*; 1-9, pp. Journal of Logic and Computations, ISSN 1465-363X (o), ISSN 0955-792X (p) (01.02.2007 and 09.02.2007 and 17.02.2007)
 - [114] *On Semilattice-ordered Semigroup – A Constructive Point of View*; pp 1- 11, Archive for Mathematical Logic, ISSN 0933-5846 (p), ISSN 1432-0665 (o) (02.02.2007)
 - [113] *A Note of Semilattice-Ordered Semigroups with Apartness*; 1-7 pp. Logic Journal of the IGPL, ISSN 1368-9894 (o), ISSN 1367-0751 (p) (20.01.2007 and 05.02.2007. and 17.02.2007 and 03.03.2007)
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 - [111] *On Quasi-antiorder Relation on Semigroup*; 1-9 pp. Annals of Pure and Applied Logic, ISSN 0168-0072 (02.09.2006)

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- [110] *An Isomorphism Theorem for Anti-ordered Sets*; 1-16 pp. Filomat, ISSN 0354-5180, 22(1)(2008), Accepted (28.01.2008)

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- [109] *Isomorphism Theorems for QA-mappings*; 1-6 pp. International Journal of Contemporary Mathematical Sciences, ISSN 1312-7586, 3(14)(2008), 695-701
- [108] *Consistent Positive and Linear Positive Quasi-antiorders*; International Mathematical Forum, ISSN 1312-7594, 3(18)(2008), 883-891
- [107] *A Theorem on Band Anticongruence on Ordered Semigroup*, International Journal of Algebra, ISSN 1312-8868, 2(7)(2008), 339-347
- [106] (with S.Crvenković and M.Vinčić): *A Note on Band Anticongruence of Ordered Semigroup*; International Journal of Algebra, ISSN 1312-8868, 2(1)(2008), 1-11
- [105] *A Remark on Coequality Relation on Anti-ordered Set*; International Journal of Contemporary Mathematical Sciences, ISSN 1312-7586, 3(1)(2008), 43-48
- [104] (with S.Crvenković, D.Jojić, M.Mitrović and M.Vinčić) *Final report on project „Positive quasi-antiorder relations on semigroups with apartness*; Mat-Kol (Banja Luka), XIV(1)(2008), od/do
- [103] *Naivna teorija skupova – Fregeove projekt* ; Mat-Kol (Banja Luka) , XIV (1)(2008), 29-58
- [102] (with Đura Paunić) *Istorija pojma funkcije*; Mat-Kol (Banja Luka), XIV(1)(2008),59-do

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- [101] (with S.Crvenković) *A Theorem on Anti-ordered Factor-semigroups*; Publications de l'Institut Mathématique, ISSN 0350-1302, 82(96)(2007), 119-128
- [100] *On Regular Anticongruence in Anti-ordered Semigroups*; Publications de l'Institut Mathématique, ISSN 0350-1302, 81(95)(2007), 95-102
- [99] *A Construction of Positive Lower-potent Quasi-antiorder in Semigroup with Apartness*; International Mathematical Forum, ISSN 1312-7594, 2(66)(2007), 3293-3301
- [98] *A Note on Quasi-antiorder in Semigroup*; Novi Sad J. Math., ISSN 1450-5444, 37(1)(2007), 3-8
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- [95] *Filozofija matematike – nova matematička disciplina*; Mat – Kol (Banja Luka), XIII(1)(2007), 31-36
- [94] (with S.Crvenković and B. Praštalo): *Principi nastavne tehnologije ukupnjavanja didaktičkih jedinica*; Mat-Kol (Banja Luka), XIII(1)(2007), 5-15
- [93] *Da li postoje perspective za nova istraživanja starih problema filozofije matematike?* Mat-Kol (Banja Luka), XIII(1)(2007), 17-29
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- [86] *Some Remarks on Uri Leron's Origin of Mathematical Thinking*; In: The 17th Annual Conference Communication Course and Conference "Communication and Education", August 29th – September 3th, 2005. Inter-University Center, Dubrovnik, Croatia, 1-10
- [85] *Šta je matematička logika ?*, Zbornik prirodno-matematičkih nauka, JUKZ, Banja Luka, V (8-9) 2005, 35-74.
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2004

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- [82] *O procjeni kvaliteta nastave matematike*; Math-Kol (Banja Luka), X(2)(2004), 27-36
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2003

- [80] (with B.Praštalo and M.Vinčić): *Program for Permanent Teacher Education in Mathematics*; Math-Kol. (Banja Luka), IX(2)(2003)

2002

- [79] *Some Relations and Subsets of Semigroup with Apartness Generated by the Principal Consistent Subset*; Univ. Beograd, Publ. Elektroteh. Fak. Ser. Math, ISSN 0522-8441, 13(2002), 7-25

2001

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2000

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R.Z.Math. 05.03-13A.228 (E.Bunina)

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1998

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Math.Rev.: 98f:03F052 Z. fur Math.: 03057 (1997/09) (B. Boričić)
- [66] *On construction of maximal coequality relation and its applications*; In : Proceedings of 8th international conference on Logic and Computers Sciences "LIRA '97", Novi Sad, September 1-4, 1997, (Editors: R.Tošić and Z.Budimac), Institute of Mathematics, Novi Sad 1997, 225-230
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4.32. ICNMK 06, Kragujevac, Serbia, September 27-30, 2006.

- [1] The Second Isomorphism Theorem on Ordered Set under Antiororders

4.31 Prim 06, Kragujevac, Serbia, Seprember 25-27, 2006.

- [1] Quasi-antiororder Relation on Semigroup

4.30 Novi Sad Algebraic Conference '05, Novi Sad, Serbia, July 11-15, 2005.

- [1] An Isomorphism Theorem for Ordered Sets under Antiororders

4.29 Conference in Štip, Macedonia, 23-25, September 2005.

- [1] *Declaration on Politics in B&H Culture (A Suggestion)*

4.28 The 17th International Communication Course and Conference "Communication and Education", August 29th – September 3th, 2005.

- [1] *Some Remarks on Uri Leron's Origin of Mathematical Thinking*

4.27 The second International Conference "Informatics, Educational Technology and New Media in Education, Sombor 2005, April 1-2.

- [1] *Diferencirana nastava matematike u osnovnoj skoli*

4.26 Colloquium of Faculty for business engineering and management Banja Luka

- [2] Učenje sa razumjevanjem – kognitivne teorije (12.02.2005.)
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4.25 XVI Conference of Applied Mathematics, Budva, Monte Negro, May 31 – June 04, 2004.

- [2] ERME and the project of Center for Innovation in Teaching in Mathematics (Exeter, UK – Banja Luka, B&H)

- [1] On Quasi-antiorde on Semigroups
- 4.24 Novi Sad Algebraic Conference '03, Novi Sad, Serbia, August 25-28, 2003.**
 [1] On quotient of a consistent subset by an element of a semigroup with apartness
- 4.23 Institute of Mathematics, University of Graz, Austria, 23rd November 1999.**
 [1] The Coideal Theory of Commutative Ring with Apartness
- 4.22 "Conference S.Milić", Novi Sad, Serbia, September 24, 1999.**
 [1] S-prime, S-primary and S-quasi-primary Coideals
- 4.21 Conference S.B.Prešić", Belgrade, Serbia, September 23-24, 1998.**
 [1] A review of some coequality relations on semigroup with apartness
- 4.20 Conference 'Algebra and Logic', Novi Sad, Serbia, September 20-21, 1998.**
 [1] A left compatible coequality relation on semigroup with apartness
- 4.19 XIII conference of applied mathematics, "Prim'98", Igalo 1998, Monte Negro, 25-29.05.1998**
 [1] A maximal right zero band compatible coequality relation on semigroups with apartness
- 4.18 8th international conference on Logic and Computer Science "Lira '97", Novi Sad 1997, Serbia, 1st -4th September, 1997.**
 [1] On construction of maximal coequality relation and its applications
- 4.17 XII conference of applied mathematics, "Prim '97", Subotica, Serbia, 08-12.09.1997.**
 [1] A construction of maximal coideal
- 4.16 International mathematical conference memorial D.S.Mitrinović, Niš, Serbia, June 20-22, 1996.**
 [1] A construction of anticongruence on monoid with zero
- 4.15 XI conference of applied mathematics, "Prim '96", Budva, Monte Negro, June 03-06, 1996.**
 [1] A construction of cosubsemigroups associated with idempotents
- 4.14 Svetozar Kurepa Symposium, Belgrade, Serbia, May 27-28, 1996.**
 [2] A construction of a coequality relation.
 [1] Note on two problems in commutative coideal theory
- 4.13 International conference "Algebra, Logic and Discrete Mathematics", Niš, Serbia, April 16-18, 1995.**
 [2] Decomposition of coequality relation
 [1] Compatible substructures of homomorphisms groups
- 4.12 Colloquium of the department of mathematics and informatics of Faculty of philosophy, UBL, B&H**
 [7] Pregled nekih relacija na polugrupama sa relacijama različitosti, (1996)
 [6] Konstruktivni aspekt teorije polugrupa, (1996)
 [5] Poopštenje parnih i neparnih relacija, (1995)
 [4] O fiksnoj tački relacija, (1995)
 [3] O nekim problemima u konstruktivnoj matematici, (1995)
 [2] Antikongruencije na polugrupama, (1994)
 [1] O jednom specijalnom funkcionalu, (1994)
- 4.11 Mathematical conference in Prištini, Cosovo**
 [4] A coequality relation on monoids, 25-28.09.1996
 [3] (with R.Milošević and M.Vinčić) A basic separation on a set with apartness, 25-28.09.1996
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 [1] (with M.Janjić) Essential quotient of coideal by an ideal, 28.09.-01.10.1994

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- [3] Savremeni trendovi u nastavi matematike, (13.11.2004), OS Sitnez, Srbac
- [2] Projekt Evropske zajednice u nastavi matematike - MEP (19.09.04)
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4.9 The first summer school of young mathematicians of the republic of Srpska, Vučja Poljana, June 24-30, 1994.

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- [1] Relacije kongruencije i antikongruencije na algebarskim sistemima, Banja Luka 02.09.1994.

4.7 Mathematical seminar of the Teacher academy, UBL, (1993)

- [2] Teoremi zamjene i rekurzije kod izračunljivih funkcija
- [1] Udruživanje programa izračunljivih funkcija

4.6 Congress of Yugoslav federation mathematical societies

- [2] Filled product of relations, Petrovac na moru 1995
- [1] Konstrukcija slobodnih Abelovih grupa, Priština 1985

4.5 Mathematical Institute of SANU, Belgrade, Serbia

- [2] Coequality relation and algebraic structures, April 02, 1996
- [1] Konstruktivno shvatanje teorije grupa, April 26, 1986

4.4 Conference "Algebra and Logic"

- [5] O relaciji koekvivalencije na skupovima, Maribor 1989
- [4] Konstruktivno shvatanje suma modula, Sarajevo 1987
- [3] Relacije ekvivalencije i koekvivalencije na Dekartovom proizvodu skupova, Sarajevo 1987.
- [2] Konstruktivno shvatanje teorije grupa, Cetinje 1986
- [1] Prsteni i polja, konstruktivno shvatanje, Zagreb 1984

4.3 Kolokvijum Odsjeka za matematiku PMF-a u Sarajevu, B&H

- [4] Jedan toerem o prstenu razlomaka, (1992)
- [3] Konstrukcija semivaluacije na Heytingovom polju, (1990)
- [2] Teorija Ruitenburgovih koideal, (1989)
- [1] Relacije koekvivalencije na skupovima, (1988)

4.2 Kolokvijum univerzitetske katedre za matematiku UBL-a, Banja Luka, B&H

- [5] Euklidski prostor kao vektorski prostor slobodnih vektora , (1991)
- [4] Koideali prstena sa relacijom različitosti, (1990)
- [3] Relacije ekvivalencije na skupovima, (1988)
- [2] Diskretnost prstena endomorfizama diskretne aditivne abelove grupe, (1983)
- [1] Intuicionistički realni brojevi, (1981)

4.1 Seminar za osnove matematike i matematičku logiku PMF-a u Zagreb, Croatia

- [4] Algebarski brojevi, izgradjeni konstruktivno, (1983)
- [3] Definišu funkcija niza i njena primjena, (1982)
- [2] Primjena Troelstrine intuicionističke ekstenzije realnih brojeva, (1981)
- [1] Troelstrina intuicionistička ekstenzija realnih brojeva, (1981)