

# Bettina-Elisabeth Klaus

## Harvard Business School and Maastricht University

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### EDUCATION

Ph.D.	School:	Maastricht University, The Netherlands.
	Date:	January 1998
	Major:	Quantitative Economics
M.S.\B.A.	School:	Technical University of Aachen, Germany.
	Date:	February 1994
	Major:	Mathematics

### UNIVERSITY POSITIONS

**Research Fellow** at Harvard Business School: July 2008 – June 2009.

**NWO** (Dutch Science Foundation) funded researcher: October 2006 – September 2011.

**Associate Professor** at Maastricht University, Maastricht, The Netherlands:  
February 2006 – present.

**Assistant Professor** at Maastricht University, Maastricht, The Netherlands:  
January 2005 – January 2006.

**Ramòn y Cajal** researcher at the Universitat Autònoma de Barcelona, Barcelona, Spain:  
June 2002 – December 2004.

**Assistant Professor** at the University of Nebraska, Lincoln, USA:  
July 1998 – May 2002 (Department of Economics and Department of Agricultural Economics).

## PUBLICATIONS

### Articles in Refereed Journals

1. B. Klaus, F. Klijn, and T. Nakamura (2007): "Corrigendum: Stable Matchings and Preferences of Couples," *Journal of Economic Theory*, forthcoming.
2. C.-J. Haake and B. Klaus (2008): "Monotonicity and Nash Implementation in Matching Markets with Contracts," *Economic Theory*, in press.
3. B. Klaus (2008): "The Coordinate-Wise Core for Multiple-Type Housing Markets is Second Best Incentive Compatible," *Journal of Mathematical Economics*, 44, 919-924.
4. B. Klaus, F. Klijn, and J. Masso (2007): "Some Things Couples always wanted to know about Stable Matchings (but were afraid to ask)," *Review of Economic Design*, 11, 175-184.
5. B. Klaus and F. Klijn (2007): "Fair and Efficient Student Placement with Couples," *International Journal of Game Theory*, 36(2), 177-207.
6. B. Klaus and F. Klijn (2007): "Paths to Stability for Matching Markets with Couples," *Games and Economic Behavior*, 58, 154-171.
7. B. Klaus and F. Klijn (2007): "Corrigendum to "On Randomized Matching Mechanisms" [Economic Theory 8(1996)377-381]," *Economic Theory*, 32, 411-416.
8. L. Ehlers and B. Klaus (2007): "Consistent House Allocation," *Economic Theory*, 30, 561-574.
9. M. Atlamaz and B. Klaus (2007): "Endowment Strategy-Proofness in an Exchange Market with Indivisible Goods," *Social Choice and Welfare*, 28(1), 1-18.
10. L. Ehlers and B. Klaus (2006): "Efficient Priority Rules," *Games and Economic Behavior*, 55(2), 372-384.
11. B. Klaus and F. Klijn (2006): "Procedurally Fair and Stable Matching," *Economic Theory*, 27(2), 431-447.
12. B. Klaus and F. Klijn (2006): "Median Stable Matching for College Admission," *International Journal of Game Theory*, 34(1), 1-11.
13. B. Klaus (2006): "A Note on the Separability Principle in Economies with Single-Peaked Preferences," *Social Choice and Welfare*, 26(2), 255-261.

14. B. Klaus, D. Dimitrov, and C.-J. Haake (2006): "Bundling in Exchange Markets with Indivisible Goods," *Economics Letters*, 93, 106-110.
15. B. Klaus and F. Klijn (2005): "Stable Matchings and Preferences of Couples," *Journal of Economic Theory*, 121(1), 75-106.
16. L. Ehlers and B. Klaus (2003): "Resource-Monotonicity for House Allocation Problems," *International Journal of Game Theory* 32(4), 545-560 (August 2004).
17. L. Ehlers and B. Klaus (2003): "Probabilistic Assignments of Identical Indivisible Objects and Probabilistic Uniform Rules," *Review of Economic Design* 8(3), 249-268.
18. L. Ehlers and B. Klaus (2003): "Coalitional Strategy-Proofness, Resource-Monotonicity, and Separability for Multiple Assignment Problems," *Social Choice and Welfare* 21(2), 265-280.
19. L. Ehlers, B. Klaus, and S. Pápai (2002): "Strategy-Proofness and Population-Monotonicity for House Allocation Problems," *Journal of Mathematical Economics* 38(3), 329-339.
20. R. Supalla, B. Klaus, O. Yeboah, and R. Bruins (2002): "A Game Theory Approach to Deciding Who Will Supply Instream Flow Water," *Journal of the American Water Resources Association* 38(4), August 2002, 959-966.
21. B. Klaus and T. Storcken (2002): "Choice Correspondences for Public Goods," *Social Choice and Welfare* 19(1), 127-154.
22. B. Klaus and E. Miyagawa (2002): "Strategy-Proofness, Solidarity, and Consistency for Multiple Assignment Problems," *International Journal of Game Theory* 30(3), 421-435.
23. B. Klaus (2001): "Uniform Allocation and Reallocation Revisited," *Review of Economic Design* 6(1), 85-98.
24. B. Klaus (2001): "Coalitional Strategy-Proofness in Economies with Single-Dipped Preferences and the Assignment of an Indivisible Object," *Games and Economic Behavior* 34(1), 64-82.
25. B. Klaus (2001): "Population-Monotonicity and Separability for Economies with Single-Dipped Preferences and the Assignment of an Indivisible Object," *Economic Theory* 17(3), 675-692.
26. L. Ehlers and B. Klaus (2001): "Solidarity and Probabilistic Target Rules," *Journal of Public Economic Theory* 3(2), 167-184.

27. B. Klaus (2001): "Target Rules for Public Choice Economies on Tree Networks and in Euclidean Spaces," *Theory and Decision* 51(1), 13-29.
28. B. Klaus, H. Peters, and T. Storcken (1998): "Strategy-Proof Division with Single-Peaked Preferences and Individual Endowments," *Social Choice and Welfare* 15(2), 297-311.
29. B. Klaus, H. Peters, and T. Storcken (1997): "Strategy-Proof Division of a Private Good when Preferences are Single-Dipped," *Economics Letters* 55(3), 339-346.
30. B. Klaus, H. Peters, and T. Storcken (1997): "Reallocation of an Infinitely Divisible Good," *Economic Theory* 10(2), 305-333.

### **Articles in Conference Proceedings and Books**

1. R. J. Supalla, O. Yeboah, B. Klaus, J.C. Allen, D.E. Jelinski, V.B. Serveiss, and R.J.F. Bruins (2004): "Seeking Solutions for an Interstate Conflict over Water and Endangered Species: Plarre River Watershed," In: *Economics and Ecological Risk Assessment: Applications to Watershed Management*, CRC Press.
2. R. J. Supalla, O. Yeboah, B. Klaus, J.C. Allen, and R.J.F. Bruins (2000): "Game Theory as a Watershed Management Tool: A Case Study of the Middle Platte Ecosystem," Symposium Proceedings *Integrated Decision-Making for Watershed Management Symposium: Processes and Tools*, Virginia Polytechnic Institute and State University Publisher, Blacksburg Virginia, Publication VWRRC7-2001, pages 796-811.
3. B. Klaus (1999): "Status Quo Solutions for Public Choice Economies on Tree Networks and in Euclidean Spaces," In: *Logic, Game Theory and Social Choice: Proceedings of the International Conference LGS'99*, ed. Harrie de Swart, Tilburg University Press, 214-225.
4. B. Klaus, H. Peters, and T. Storcken (1998): "Strategy-Proof Reallocation of an Infinitely Divisible Good," In: *Charlemagne and the Liberal Arts: 1200 Years of Civilization and Science in Europe*, Volume 2: Mathematical Arts, eds. P.L. Butzer, H.Th. Jongen, W. Oberschelp, Aachen: Brepols Verlag.
5. B. Klaus and H. Peters (1998): "Maastricht in Science from Minckelers to Debye: Some Historical Notes," In: *Charlemagne and the Liberal Arts: 1200 Years of Civilization and Science in Europe*, Volume 2: Mathematical Arts, eds. P.L. Butzer, H.Th. Jongen, W. Oberschelp, Aachen: Brepols Verlag.
6. B. Klaus (1997): "The Characterization of the Uniform Reallocation Rule without Pareto Optimality," *Game Theoretical Applications to Economics and Operations Research*, eds. T. Parthasarathy, B. Dutta, J.A.M. Potters, T.E.S. Raghavan, D. Ray, and A. Sen, Dordrecht, Kluwer-Academic Publishers, 239-255.

### **Books, Monographs, and Reports**

B. Klaus (1998): "Fair Allocation and Reallocation: An Axiomatic Study," Ph.D. Thesis Maastricht University, Unigraphic, Maastricht, The Netherlands (ISBN 90-5681-027-8).

### **WORKING PAPERS and WORK IN PROGRESS**

1. B. Klaus, F. Klijn, and M. Walzl (2008): "Stochastic Stability for Roommate Markets," METEOR research memorandum RM/08/010.
2. B. Klaus and F. Klijn (2008): "Smith and Rawls Share a Room: Stability and Medians," METEOR research memorandum RM/08/009.
3. O. Bochet and B. Klaus (2008): "The Relation between Monotonicity and Strategy-Proofness," working paper (will be send upon request).
4. C.-J. Haake and B. Klaus (2008): "Stability and Nash Implementation in Matching Markets with Couples," Harvard Business School Working Paper, No. 09-017, August 2008.
5. B. Klaus (2007): "Competition and Resource Sensitivity in Marriage and Roommates Markets," METEOR research memorandum RM/07/046 (submitted November 2007).
6. O. Bochet, B. Klaus, and M. Walzl (2007): "Dynamic Recontracting Processes with Multiple Indivisible Goods," METEOR research memorandum RM/07/018 (submitted February 2008).
7. B. Klaus, and M. Walzl (2007): "Stable Many-to-Many Matchings with Contracts," METEOR research memorandum RM/06/042 (under revision).
8. B. Klaus (2007): "The Role of Replication-Invariance: Two Answers Concerning the Problem of Fair Division when Preferences are Single-Peaked," METEOR research memorandum RM/07-029.
9. B. Klaus and F. Klijn (2006): "Employment by Lotto Revisited," UAB Working Paper 627.04 (resubmitted to the *International Game Theory Review*, March 2008).

## REVIEW SERVICES

### Refereeing for the Following Academic Journals or Scientific Institutions

American Economic Review, American Mathematical Monthly, Mathematical Social Sciences, Economic Bulletin, Economics Letters, Economic Theory, European Economic Review, Games and Economic Behavior, International Game Theory Review, International Journal of Business and Economics, International Journal of Game Theory, Journal of Economics, Journal of Economic Theory, Information Processing Letters, Journal of Public Economics, Journal of Public Economic Theory, Mathematical Social Sciences, National Science Foundation, Review of Economic Design, Social Choice and Welfare.

## OTHER PROFESSIONAL ACTIVITIES

- Associate Editor for *Mathematical Social Sciences* (since 2007)
- Associate Editor for the *Journal of Agricultural & Food Industrial Organization* (since 2002)
- Guest editor special issue of *Journal of Public Economic Theory*
- Council Member of the *Society for Social Choice and Welfare* (2006-2011)
- Member of the Scientific Committee for the Meeting of the Society for Social Choice and Welfare (Montreal, 2008).
- Principal investigator of the NWO (Netherlands Organisation for Scientific Research) VIDI project “How to Design Allocation and Matching Mechanisms?” October 2006 – September 2011: <http://www.personeel.unimaas.nl/b.klaus/>
- Workshop\Conference Organization
  - “Advances in Collective Choice,” April 29<sup>th</sup> 2006: <http://www.personeel.unimaas.nl/b.klaus/CCworkshop.htm>
  - Advances in Collective Choice, April 25<sup>th</sup> and 26<sup>th</sup> 2008: <http://www.personeel.unimaas.nl/b.klaus/CCworkshop08.htm>
  - Coalition Theory Network Conference “Matching, Coalitions, Networks, and Behavior,” January 2009.

- Local Organizer of the Coalition Theory Network (2005 - 2008):  
<http://www.personeel.unimaas.nl/b.klaus/CTN.html>
- Current Ph.D. students:
  - Emin Karagozoglou, December 2006 - , noncooperative, normative and experimental approaches to bankruptcy problems, <http://www.personeel.unimaas.nl/e.karagozoglou/>
  - Alexandru Nichifor, September 2007 - , VIDI project, <http://www.nichifor.net/>
  - Burak Can, November 2007 - , mechanism design, social choice, <http://www.personeel.unimaas.nl/B.Can/>

## **SEMINAR/CONFERENCE PAPERS PRESENTED**

### **Seminar Presentations (2008-2007 only)**

#### **2008:**

1. University of Lausanne, Switzerland, Department of Economics (February 5<sup>th</sup>)
2. Tilburg University, The Netherlands, Dutch Social Choice Group (March 28<sup>th</sup>)
3. University of Vigo, Spain, Department of Economics (April 17<sup>th</sup>)
4. Tinbergen Institute Amsterdam, The Netherlands (May 23<sup>rd</sup>)

#### **2007:**

5. University of Indiana, USA, Department of Economics (January 31<sup>th</sup>)
6. University of Rochester, USA, Department of Economics (February 2<sup>nd</sup>)
7. Université de Montreal, Canada, Department of Economics (April 5<sup>th</sup>)
8. University of the Basque Country, Bilbao, Spain, Department of Economics (June 1<sup>st</sup>)
9. RWTH Aachen, Lehrstuhl für Informatik I, Aachen, Germany (July 19<sup>th</sup>)

### Conference/Workshop Presentations (2007\2008 only)

#### 2008:

1. 13<sup>th</sup> Coalition Theory Network Workshop, Venice, Italy, January 24-25: “Stochastic Stability for Roommate Problems.”
2. IV Workshop on Public Policy Design: Topics on Social Choice, Girona, January 30: “The Relation between Monotonicity and Strategy-Proofness.”
3. CalTech Matching Workshop, Pasadena, USA, February 27 – March 2: “Stochastic Stability for Roommate Problems” (invited talk).
4. 9th International Meeting of the Society for Social Choice and Welfare, Montreal, Canada, June 19-22: “The Relation between Monotonicity and Strategy-Proofness.”

#### 2007:

5. Workshop on Matching: Theory, Applications, and Experiments, Barcelona, Spain, June 8-9: “Competition and Resource Sensitivity in Marriage and Roommates Markets” (invited talk).
6. Summer School on Political Economy and Social Choice, Torremolinos, Spain, June 9-12: “Competition and Resource Sensitivity in Marriage and Roommates Markets” (invited talk).
7. 5th International Conference on Logic, Game Theory and Social Choice, Bilbao, Spain, 20-22 June: “Competition and Resource Sensitivity in Marriage and Roommates Markets.”
8. Prioritizing in Medicine - DFG research group FOR655, Bad Nenndorf, Germany, November 3, “Normatiever Allokationsdesign: eine amerikanische Erfolgsgeschichte?” (invited talk).
9. XXXII Simposio de Análisis Económico, Granada, Spain, December 13-15: “Smith and Rawls share a Room.”
10. Viertes Weihnachtstreffen deutscher Wirtschaftswissenschaftler im Ausland, Universität Mannheim und Zentrum für Europäische Wirtschaftsforschung, Germany, December 21-22: “Smith and Rawls share a Room.”

### **TEACHING (last four years only)**

- Fall 2007: Maastricht University, The Netherlands
- Economic Design and Matching Theory (MPhil course)
- Spring 2007: RWTH Aachen, Germany
- Game Theory Seminar
- Fall 2006: Maastricht University, The Netherlands
- Two-Sided Matching (MPhil course)
- RWTH Aachen, Germany
- Game Theory Course (Two-Sided Matching module)
- Spring 2006: Maastricht University, The Netherlands
- Design of Tax Systems
  - Information, Justice and Political Process
  - Public Pricing
  - Writing a Review
- Fall 2005: Maastricht University, The Netherlands
- Public Economics
- Spring 2005: Maastricht University, The Netherlands
- Design of Tax Systems
  - Information, Justice and Political Process
  - Public Pricing
- Spring 2004: Universitat Autònoma de Barcelona, Spain
- Advanced Microeconomics II, Ph.D. course (IDEA).
  - Social Choice, Ph.D. course: segment on Matching Theory (IDEA)
  - Microeconomia II, undergraduate microeconomics course.

### **Other courses taught in the past:**

University of Bielefeld, Germany

- Two-Sided Matching Theory, Ph.D. minicourse (BiGSEM).

Universitat Autònoma de Barcelona, Spain

- Advanced Microeconomics II, Ph.D. course (IDEA).

University of Nebraska at Lincoln, USA

- Intermediate Microeconomics, Advanced Microeconomics I and II (Ph.D. level)

University of Rochester, USA

- Mathematical Economics (Ph.D. level)

**PH.D. EXAM COMMITTEES:**

Caroline Berden (2008, Universiteit Maastricht)

Paolo Pin (2007, Università Ca' Foscari Venezia, Italy)

Elena Grigorieva (2007, Universiteit Maastricht, The Netherlands)

Stefan Maus (2004, Universiteit Maastricht, The Netherlands)

Danilo Coelho (2004, Universitat Autònoma de Barcelona, Spain)

Noemi Navarro (2003, Universidad Carlos II, Madrid, Spain)

Lars Ehlers (2001, Universiteit Maastricht, The Netherlands).

**MASTER'S THESIS SUPERVISION AND COMMITTEES:**

Ute Kremer (in progress: RWTH Aachen, Germany)

Michael Kurschilgen (2007: Maastricht University, The Netherlands)

Conrad Schmidt-Bens (2006: Maastricht University, The Netherlands)

Ivan Welters (2006: Maastricht University, The Netherlands)

Marc Santugini Repiquet (2001: University of Nebraska at Lincoln, USA)

Andrew Cusano (2001: University of Nebraska at Lincoln, USA)

Chin Khiang Yong (2000: University of Nebraska at Lincoln, USA)

**LANGUAGES:**

Dutch (fluent), English (fluent), French (basic), German (native), Spanish (fluent).

August 22<sup>nd</sup>, 2008