

CODE

Center for the study of Organizations and Decisions in Economics

ACTIVITY REPORT 1999

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INTRODUCTION

The Center for the Study of Organizations and Decisions in Economics (CODE) is a research center at the Universitat Autònoma de Barcelona, created in 1995 to promote high quality research in the

theory of economic decisions and organizations. Since the beginning of its activities, CODE's main goal is to provide an environment allowing for excellence in research as measured by the international standards of scientific quality.

CODE's permanent members belong to the Department of Economics at the UAB, which has pioneered in Economics Research for the last twenty years. The Department is still the natural meeting point for those activities, like undergraduate and doctoral education, for which diversity of interests and abilities are most important.

The activity report strives to be a regular publication that our colleagues look forward to be available. The present edition covers the activities performed during 1999.

In its fourth year of activities, CODE has hosted 11 visitors from all over the world for stays ranging from one month to one year. Research activities can be grouped in five areas: Financial Economics/Macroeconomics, Industrial Organization, Mathematical Economics, Public Economics and Social Choice/Game Theory. All this research is developed through 16 research project financed by the Spanish Ministry of Education, the Catalan Government (Generalitat de Catalunya) and the European Union. It has materialized in 21 papers published in leading economic journals and the participation of CODE members in major academic meetings, both as organizers and as participants.

All in all we hope this report reflects the commitment of CODE to build an increasingly consistent research center that can be taken as a reference point for top quality research within Europe and beyond.

MEMBERS

2.1 RESEARCHERS:

o BARBERÀ SÁNDEZ, Salvador

Ph.D.: Northwestern University (1975)

Fields of Specialization: Public Economics, Social Choice.

o BEVIÁ BAEZA, Carmen

Ph.D.: Universidad de Alicante (1994)

Fields of Specialization: Social Choice, Public Economics.

o CABALLÉ VILELLA, Jordi

Ph.D.: University of Pennsylvania (1989)

Fields of Specialization: Finance, Economic Growth

o FRADERA GARRIGA, Isabel

Ph.D.: Northwestern University (1980)

Fields of Specialization: Mathematical Economics, Imperfect Competition.

o **MACHO-STADLER, Inés**

Ph.D.: École des Hautes Études en Sciences Sociales, Paris (1989)

Fields of Specialization: Economics of Information, Industrial Organization, Public Economics.

o **MARTÍNEZ GIRALT, Xavier**

Ph.D.: CORE, Université Catholique de Louvain (1988)

Fields of Specialization: Industrial Organization, Health Economics.

o **MARTÍNEZ LEGAZ, Juan Enrique**

Ph.D.: Universitat de Barcelona (1981)

Fields of Specialization: Optimization Theory, Convex Analysis, Mathematical Economics.

o **MASSÓ CARRERAS, Jordi**

Ph.D.: State University of New York at Stony Brook (1988)

Fields of Specialization: Game Theory, Industrial Organization, Social Choice.

o **OLIVELLA CUNILL, Pau**

Ph.D.: Northwestern University (1989)

Fields of Specialization: Economics of Information, Public Economics.

o **PÉREZ-CASTRILLO, David**

Ph.D.: École des Hautes Études en Sciences Sociales, Paris (1991)

Fields of Specialization: Economics of Information, Industrial Organization, Game Theory.

o **PONSATÍ OBIOLS, Clara**

Ph.D.: University of Minnesota (1988)

Fields of Specialization: Game Theory.

2.2. ACADEMIC VISITS:

BALDER, Erik

University of Utrecht, The Netherlands

February

BOSSERT, Walter

University of Nottingham, UK.

May

CRAVEN, Bruce D.

University of Melbourne, Australia

September

CECHLÁROVÁ, Katarina

PJ Safarik University, Kosice, Slovakia.

November

FRAYSSE, Jean

Université des Sciences Sociales de Toulouse, France.

February-April

JACKSON, Matthew

California Institute of Technology, USA.

May

MASCHLER, Michael

Hebrew University of Jerusalem, Israel.

September-October

NEME, Alejandro

Universidad Nacional de San Luis, Argentina.

November 98-February 99

OVIEDO, Jorge

Universidad Nacional de San Luis, Argentina.

February

WATSON, Joel

University of California, San Diego, USA.

May

WETTSTEIN, David

Ben-Gurion University, Israel.

September 98-January 99

WILKIE, Simon

California Institute of Technology, USA.

March

ZWICKER, William

Union College, NY, USA.

December 98-April 99

2.3. ADMINISTRATIVE STAFF

IGLESIAS HERNÁNDEZ, Conxa
VALLEJO TEY, Marta

3. AREAS OF RESEARCH

Financial Economics-Macroeconomics

1. Security Design with Several Projects and Insider Trading (Jordi Caballé).
2. The Sources of Volatility in Financial Markets with Insider Trading (Jordi Caballé).

Industrial Organization

1. Iceberg Transport Costs (Xavier Martinez-Giralt).
2. The impact of the "Chunnel" on the Location of Production Activities (Xavier Martinez-Giralt).
3. On the Effects of Antidumping Legislation (Xavier Martinez-Giralt).
4. Telecommunication Technologies and Location of Activities (Xavier Martinez-Giralt).
5. Simple Mechanisms to Implement Stable Situations in Labor Markets (David Pérez-Castrillo).

Public Economics

1. Optimal Inspection Policies (Inés Macho-Stadler and David Pérez-Castrillo).
2. Fiscal Amnesties (Pau Olivella).
3. Public and Private Provision of Health Care (Xavier Martínez-Giralt).
4. Waiting Lists in the Health Care System (Pau Olivella).
5. Provision of Incentives in Health Care Systems (Inés Macho-Stadler).
6. Subsidies to Higher Education (Carmen Beviá).

Social Choice Theory-Game Theory

1. Non-manipulable Voting Mechanisms and Feasibility Restrictions (Salvador Barberà and Jordi Massó).
2. Cooperative Game Theory and Compromise Values (Jordi Massó).
3. Axiomatic Analysis of Iterative Negotiations (Clara Ponsatí).
4. Non-cooperative Negotiation Games with Outside Options (Clara Ponsatí).
5. Matching Models (Jordi Massó and Salvador Barberà).
6. Voting in Dynamic Settings (Salvador Barberà).
7. Preferences and Utility Representations (Salvador Barberà).
8. Coalition and Group Formation (Salvador Barberà and Carmen Beviá).
9. Convexity in Cooperative Game Theory (Isabel Fradera and Juan Enrique Martínez-Legaz).

4. RESEARCH PROJECTS

A brief description is given of the research projects in which the members of CODE are involved. These projects are financed by the Ministry of Education and Science through the Inter-Ministerial Commission of Science and Technology, by the Government of Catalonia and by the European Community.

Title: Acciones Integradas España-G.B, HB1998-0143

Team coordinator: Salvador Barberà

Description: Bilateral Research Project (Spain/U.K.).

Title: Acciones Integradas España-Portugal, HB1998-0057

Team coordinator: Inés Macho-Stadler

Description: Bilateral Research Project (Spain/Portugal).

Title: Exploratory Workshop on Bargaining (European Science Foundation)

Team coordinator: Clara Ponsatí

Description: Organization of workshops on bargaining theory and its applications.

Title: Programa d'Estudis Catalans Gaspar de Portolà: Activitats de col.laboració.

Team coordinator: Salvador Barberà

Description: Catalanian Studies Program Gaspar de Portolà: Activities of Collaboration with University of California.

Title: Market and Non Market Organizations: Design and Regulation (MNM) MCFH-1999-01245

Team coordinator: Salvador Barberà

Description: Programme "Improving Human Research Potential and the Socio-economic Knowledge Base". Marie Curie Training Site.

Title: Cooperation and Competition: Studies on Strategic Behavior and Institutional Design.

DGICYT PB96-1192

Team coordinator: Salvador Barberà

Description: This project studies games and institutions from a strategic viewpoint. We try to overcome the rigid separation between what is cooperative and what is non-cooperative and mix both types of considerations. The implementability of cooperative objectives and the social consequences of non-cooperative processes are examples of questions we ask both for abstract games and for specific institutional contexts. The latter include large markets, voting situations, firms and different governmental policies.

Title: Comissionat per a Universitats i Recerca. Generalitat de Catalunya. SGR98-62

Team coordinator: Salvador Barberà

Description: Support to top quality research groups.

Title: Economic Challenges and Challenges to Economics in Southern Europe -ASSET-HPCF-1999-00245

Team coordinator: Salvador Barberà

Description: Human Potential Programme: High-Level Scientific Conferences.

Title: Convexity and Indivisibilities in Cooperative Games: Theory and Economic Applications.
DGICYT PB95-0679

Team coordinator: Juan E. Martínez Legaz

Description: Analysis of the role of convexity in cooperative game theory and its implications for economics models.

Title: Programa de Cooperación Científica con Iberoamérica

Team coordinator: Jordi Massó

Description: Cooperation program UAB-Universidad Nacional de San Luís, Argentina.

Title: Xarxa Temàtica Barcelona-Jocs

Team coordinator: Jordi Massó

Description: Series of seminars. The last Monday of every month in Barcelona.

Title: Programa Cátedra FBBV

Team coordinator: Clara Ponsatí

Description: Grants for foreign researchers in Spain.

Title: Programa Hispano-Norteamericano de Cooperación Científica y Tecnológica .

Team coordinator: Salvador Barberà

Description: Bilateral Research Project (Spain/USA).

Title: Topics in Public Economics: Economics of Innovation and Health Economics. PB97-0181

Team coordinator: Inés Macho-Stadler

Description: This project consists in applying the microeconomic analysis to two aspects of Public Economics. The first refers to the Economics of Technological Change, and the second refers to Health Economics. The aim is to obtain normative conclusions that are useful in the design of desirable technological and health policy. First, we attempt to study the optimal technological policy with respect to joint research projects and mergers, while at the same time analyzing the appropriate combination of institutional and administrative mechanisms in a technological policy. Second, we attempt to study the way in which the private and public provision of health services may coexist. As a particular case, we will analyze the MUFACE system in Spain. We also want to engage in the design of the best organization of each the health systems, as well as the demand-cost-sharing schemes and the incentive mechanisms directed to the service providers.

Title: Dynamic Models: Applications to Macroeconomics and Economic Growth. PB96-1160-C02-02

Team coordinator: Jordi Caballé

Description: In this project we intend to apply some techniques borrowed from dynamic economics

to macroeconomic theory. We emphasize the applications to the areas which are more active in the present, like growth theory and exogenous and endogenous business cycles.

Title: Cooperative Games and Economic Structures: Convexity, Monotonicity and Generalizations.
PB98-0867.

Team coordinator: Juan Enrique Martínez Legaz

Description: Representability of cooperative games that are not necessarily balanced by economic structures, and axiomatic analysis of solution concepts.

5. PUBLICATIONS AND WORKING PAPERS

BARBERÀ, Salvador

- (Joint with B. Dutta), "Incentive Compatible Reward Schemes for Labour-Managed Firms", *Review of Economic Design*, forthcoming.

- (Joint with J. Massó and S. Serizawa), "Strategy-Proof Voting on Compact Ranges", *Games and Economic Behavior*, 25, 272-291, 1998. In C. d'Aspremont (ed.), *Social Organization and Mechanism Design. Proceedings of the Second Francqui Colloquium, 10-11 June 1996, Brussels.* Belgique: De Broeck & Lacier, S.A., 1999.

- (Joint with J. Massó and A. Neme), "Maximal Domains of Preferences Preserving Strategy-Proofness for Generalized Median Voter Schemes", *Social Choice and Welfare*, 16, 321-336.

- (Joint with A. Perea), "Supporting Others and the Evolution of Power", WP 99-86 Universidad Carlos III de Madrid.

- (Joint with A. Gerber), "On Coalition Formation: Durable Coalition Structures", mimeo, May.

- (Joint with C. Beviá), "Self-selection Consistent Choices", W.P., June.

BEVIÁ, Carmen

- (Joint with M. Quinzii and J. A.. Silva), "Buying Indivisible Goods", *Mathematical Social Sciences*, 37.

- (Joint with S. Barberà), "Self Selection Consistent Choices", W.P., June.

- (Joint with I. Iturbe-Ormaetxe), "Redistribution and Subsidies for Higher Education", mimeo.

- (Joint with L. Corchón and S. Wilkie), "Implementation of the Walrasian Correspondence by Market Games", mimeo.

CABALLÉ, Jordi

- (Joint with L. Fuster), "Pay-as-you go Social Security and the Distribution of Bequests", mimeo.
- (Joint with A. Pomansky), "Nth Order Stochastic Dominance and Complete Monotonicity", mimeo.
- (Joint with J. Panadés), "Tax Evasion and Economic Growth", mimeo.

MACHO-STADLER, Inés

- "Incentivos en los sistemas sanitarios", en "Calidad y Costes en la Contratación de Servicios de Salud", edited by Pere Ibern, Springer-Verlag.
- (Joint with P. Olivella and D. Pérez-Castrillo), "Tax Amnesties in a Dynamic Model of Tax Evasion", *Journal of Public Economic Theory*, 1(4) 439-463.
- (Joint with I. Jelovac), "Comparing Organizational Structure in Health Services", WP 412.98 UAB-IAE.
- (Joint with D. Pérez-Castrillo), "Auditing with Signals", WP 99.07 Center for Industrial Economics, University of Copenhagen.
- (Joint with M. P. Espinosa), "Endogeneous Formation of Partnerships with Moral Hazard", mimeo.

MARTÍNEZ GIRALT, Xavier

- (Joint with P. P. Barros), "On the Effects of Antidumping Legislation", *Regional Science and Urban Economics*, 29 (1).
- (Joint with P. P. Barros), "Public and Private Provision of Health Care", mimeo.
- (Joint with P. P. Barros), "Selecting Negotiation Processes", mimeo.
- "Market and Non-Market Values in Cost (-Benefit) Analysis", mimeo.

MARTÍNEZ LEGAZ, Juan Enrique

- (Joint with C. Bajona-Xandri), "Lower Subdifferentiability in Minimax Fractional Programming" , Optimization, 45, 1-12.
- (Joint with P.H. Sach), "A New Subdifferential in Quasiconvex Analysis", Journal of Convex Analysis, 6, 1-11.
- (Joint with D.T. Luc and A. Seeger) "Least Deviation Decomposition with Respect to a Pair of Convex Sets", Journal of Convex Analysis, 6, 115-140.
- (Joint with M. Volle), "Duality in D.C. Programming: The Case of Several D.C. Constraints", Journal of Mathematical Analysis and Applications, 237, 657-671.
- (Joint with I. Dragan), "On the Semivalues and the Power Core of Cooperative TU Games" IR # 338, Department of Mathematics, The University of Texas at Arlington.
- "A new characterization of totally balanced games", Topics in Mathematical Economics and Game Theory, ed. by M. Wooders, Fields Inst. Commun., 23, Amer. Math. Soc., Providence RI, 83-88.

MASSÓ, Jordi

- (Joint with R. Martínez, A. Neme and J. Oviedo), "Single Agents and the Set of Many-to-One Stable Matchings", forthcoming Journal of Economic Theory.
- (Joint with S. Barberà and S. Serizawa), "Strategy-Proof Voting on Compact Ranges", Games and Economic Behavior, 25, 272-291, 1998. En C. d'Aspremont (ed.), Social Organization and Mechanism Design. Proceedings of the Second Francqui Colloquium, 10-11 June 1996, Brussels. Belgique: De Broeck & Lacier, S.A., 1999.
- (Joint with S. Barberà and A. Neme), "Maximal Domains of Preferences Preserving Strategy-Proofness for Generalized Median Voter Schemes", Social Choice and Welfare, 16, 321-336.
- "A Note on the Lattice Structure of the Set of Stable Matchings", mimeo, April.
- "Maximal Domains of Preferences in the Division Problem", W.P. UAB-IAE 434.99, October.
- (Joint with F. Klijn), "Weak Stability and a Bargaining set for the Marriage Model" Center DP 99114, Tilburg University, November.

OLIVELLA, Pau

- (Joint with I. Macho-Stadler and J.D. Pérez-Castrillo), "Tax Amnesties in a Dynamic Model of Tax Evasion", *Journal of Public Economic Theory* 1 (4), 439-463.
- "Tax Amnesties and Tax Evasion Inertia", *Public Finance/Finances Publiques* 51 (4/suppl.) 1996 (Appeared in 1999).
- "Shifting Public-Health-Sector Waiting Lists to the Private Sector", mimeo.
- (Joint with P. Pita Barros), "Waiting Lists and Patient Selection", Discussion Paper UAB-CSIC WP 444.99.

PÉREZ-CASTRILLO, David

- (Joint with D. Wettstein), "Implementation of Bargaining Sets via Simple Mechanisms", forthcoming in *Games and Economic Behaviour*, 2000.
- (Joint with I. Macho-Stadler and P. Olivella), "Tax Amnesties in a Dynamic Model of Tax Evasion", *Journal of Public Economic Theory* 1 (4), 439-463, 1.
- (Joint with D. Wettstein), "Bidding for the Surplus: A Non-cooperative Approach to the Shapley Value" W.P. 24-99 Tel Aviv University.
- (Joint with N. Riedinger), "Auditing Cost Overrun Claims" D.P. 99-12 Centre for Industrial Economics U. Copenhagen.
- (Joint with I. Macho-Stadler), "Auditing with Signals", D.P. 99-08 Centre for Industrial Economics, U. Copenhagen.

PONSATÍ, Clara

- (Joint with J.Sákovics): "Bargaining in a Changing Environment" *Studies in Economic Theory*, Springer, vol.8, "Current Trends in Economics" edited by A.Alkan, C.D. Aliprantis and N. Yannelis.

6. EDITORIAL ACTIVITIES

BARBERÀ, Salvador

- Editor:
SPANISH ECONOMIC REVIEW.

- Associate Editor:
SOCIAL CHOICE AND WELFARE.
MATHEMATICAL SOCIAL SCIENCES.
ECONOMIC THEORY.
JOURNAL OF PUBLIC ECONOMIC THEORY.

- Advisory Board:
THEORIA

CABALLÉ, Jordi

- Editorial board:
SPANISH ECONOMIC REVIEW
INVESTIGACIONES ECONÓMICAS
PORTUGUESE ECONOMIC JOURNAL

MACHO STADLER, Inés

- Co-editor:
SPANISH ECONOMIC REVIEW

- Editorial board:
REVUE ECONOMIQUE

MARTÍNEZ LEGAZ, Juan Enrique

- Editorial board:
OPTIMIZATION
JOURNAL OF CONVEX ANALYSIS

MASSÓ, Jordi

- Editorial committee:
INVESTIGACIONES ECONÓMICAS

PÉREZ CASTRILLO, David

- Editorial board:
SPANISH ECONOMIC REVIEW

PONSATÍ OBIOLS, Clara

- Editorial board:
REVIEW OF ECONOMIC DESIGN

7. CONFERENCES AND MEETINGS

BARBERÀ, Salvador

- 6th. ENTER Jamboree, Brussels, January.
- XVIII Ple Anual Societat Catalana d'Economia, Barcelona, Spain, February.
- I Simposium Cátedra de la Fundación Banco Bilbao Vizcaya, Madrid, Spain, April.
- Second Workshop on Game Theory: Coalition Formation and Applications to Economics, Universidad del País Vasco, Bilbao, Spain, April.
- Congress on Groups, Networks and Coalitions, Manresa, Barcelona, Spain, May.
- Axiomatic Resource Allocation Theory, Namur, Belgium, July.
- Economics at the End of the Millenium. Pondering Progress, Fundación Urrutia-Elejalde, San Sebastián, Spain, July.
- ESEM, Santiago de Compostela, Spain, 29 August-1 September.
- 7th Osnabrück Seminar, Universität Osnabrück, Osnabrück, Germany, October.
- ASSET Annual Meeting, Tel Aviv, Israel, October.
- XXIV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

BEVIÀ, Carmen

- Society for the advancement of Economic Theory IV. International Meeting. Economic Theory and Applications. Rodas, Greece, July.
- XXIV Simposio de Análisis Económico., Bellaterra, Barcelona, Spain, December.

MACHO-STADLER, Inés

- Workshop of the Center for Industrial Economics, Copenhagen, Denmark,
- 26th EARIE Conference, Torino, Italy, September.
- ASSET Meeting, Tel-Aviv, Israel, October.
- XXIV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

MARTÍNEZ-GIRALT, Xavier

- 26th EARIE Conference, Torino, Italy, September.
- Workshop on Health Economics: Aging and Health Care, Glaxo Wellcome Foundation for Health Sciences. Lisbon, Portugal, September.

MARTÍNEZ LEGAZ, Juan Enrique

- XIV International Conference on Mathematical Programming, Mátraháza, Hungary, March.
- Summer School on Generalized Convexity/Monotonicity, Karlovassi, Greece, August.
- 6th International Symposium on Generalized Convexity/Monocity, Karlovassi, Greece, August.
- Conference on Duality and Games, Aix-en-Provence, France, December.
- XXIV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

MASSÓ, Jordi

- 6th ENTER Jamboree, Brussels, January.

OLIVELLA, Pau

- 26th EARIE Conference, Torino, Italy, September.

PÉREZ-CASTRILLO, David

- Workshop of the Centre for Industrial Economics, Copenhagen, Denmark,
- 26th EARIE Conference, Torino, Italy, September.
- ASSET Meeting; Tel Aviv, October.
- XXIV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

PONSATÍ, Clara

- Congress on Groups, Networks and Coalitions, Manresa, Barcelona, Spain, May.
- Society for the advancement of Economic Theory IV. International Meeting. Economic Theory and Applications. Rodas, Greece, July.
- XXIV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

8. SEMINARS

BARBERÀ, Salvador

- University of Nottingham, September.

BEVIÀ, Carmen

- California Institute of Technology, October.
- University of California at Davis, November.

CABALLÉ, Jordi

Universitat Rovira i Virgili.

MACHO-STADLER, Inés

- Institute of Economics (University of Copenhagen), April.
- Business School of Economics of Copenhagen, June.
- University of Helsinki, June.
- Namur University, November..
- Tilburg University, November.
- Department of Applied Economics (KULeuven), November.
- Department of Economics (KULeuven)), November.
- Saarbruecken University.

- IRES (Université Catholique de Louvain la Neuve)), November.

MARTÍNEZ LEGAZ, Juan Enrique

- Université de Bourgogne, June.
- University of The Aegean, November.

MASSÓ, Jordi

- Universidad de Vigo.
- Universidad de Málaga.

PÉREZ-CASTRILLO, David

- Institute of Economics (University of Copenhagen), March.
- Helsinki University, June.
- Copenhagen Business School, June.
- Universidad del País Vasco, September.
- Katholieke Universiteit Leuven, September.
- Ben-Gurion University of the Negev, September.
- CentER at the University of Tilburg, October.
- Katholieke Universiteit Leuven, October.
- Université de Namur, November.
- CORE at the Université Catholique de Louvain, November.

PONSATÍ, Clara

- University of Alberta.
- California Institute of Technology.

9. ORGANIZATION OF CONFERENCES

- BARCELONA-JOCS

Academic year 1998/99

Organizer: Salvador Barberà

BARCELONA-JOCS is a series of seminars attended by researchers from the following six academic institutions located in Barcelona metropolitan area and Girona: Institut d'Anàlisi Econòmica (CSIC), Universitat de Barcelona, Universitat Autònoma de Barcelona, Universitat Politècnica de Catalunya, Universitat Pompeu Fabra and Universitat de Girona. It started two years ago and it consist in a monthly meeting (the last Monday of every month). Each session has two speakers, an insider from

one of Barcelona institutions and an outsider from anywhere else. The seminars are hold at the Institut d'Estudis Catalans, downtown Barcelona.

- **CONGRESS ON GROUPS, NETWORKS AND COALITIONS**, May 14-16, Caixa Manresa and CODE, Manresa (Barcelona).

Organizer: Salvador Barberà

10. ORGANIZATION OF COURSES

- (Inés Macho-Stadler and Xavier Martínez-Giralt) *Principles of Health Economics in Master in Evaluation and Management of Health Services*. Universitat Autònoma de Barcelona and Agència d'Avaluació de Tecnologia Mèdica, Departament de Sanitat i Seguretat Social, Generalitat de Catalunya.

- (Inés Macho-Stadler and Xavier Martínez-Giralt) Introductory Economics, Principles of Health Economics and Public Sector Economics in Master in Clinic Management and Organization of Health Services. Universitat Autònoma de Barcelona and Hospitals de la Vall d'Hebron.

11. RESEARCH VISITS

BARBERÀ, Salvador

-University of Nottingham, 1 week.

BEVIÁ, Carmen

- California Institute of Technology. 1 month.

MACHO, Inés

- University of Copenhagen. 6 months.

- Katholieke Universiteit Leuven and CORE. 5 months.

MARTÍNEZ-GIRALT, Xavier

Universidade Nova de Lisboa. 2 weeks.

MARTÍNEZ-LEGAZ, Juan Enrique

- University of Ballarat, 3 weeks.

- Université de Bourgogne, 1 month.

- University of The Aegean, 1 week.

- Université de la Méditerranée et d'Aix-Marseille, 1 week.

MASSÓ, Jordi

- Universidad Nacional de San Luis, Instituto de Matemáticas Aplicadas. 2 weeks

OLIVELLA, Pau

- Universidade Nova de Lisboa. 2 weeks.

PÉREZ-CASTRILLO, David

- University of Copenhagen. 6 months.

- Katholieke Universiteit Leuven and CORE. 5 months.

PONSATÍ, Clara

- University of Alberta.

- California Institute of Technology. 1 month.

12. ADVISING PH.D. THESIS

CABALLÉ, Jordi

- Advisor of JAVIER COTO MARTÍNEZ. "Imperfect competition and macroeconomics" (Universitat Autònoma de Barcelona). Grade: Cum Laude by unanimity.

- Advisor of JANA HROMOCOVÁ. "Essays on money and growth" (Universitat Autònoma de Barcelona). Grade: Cum Laude by unanimity.

MACHO-STADLER, Inés

- Advisor of JAVIER CABALLERO. "Industrial Policy for the Research and the Development" (Universitat Autònoma de Barcelona). Grade: Cum Laude by unanimity.