Technical Report

National Institute of Science and Technology in Mathematics – Global and Integrated Advancement of Brazilian Mathematics

Meetings of the Scientific and Administrative Council

In this first year of activities of INCTMat, its Scientific and Administrative Council met once for the presentation and discussion of the Project approved MCT/CNPq/FPAERJ for the global advancement of mathematics in Brazil.

After that, the Council met electronically, in particular to adopt a specific support for the Developing Centers of Mathematics in Brazil, most situated in the North, Northeastern and Center West. They are considered to be most important to spread good level activities in mathematics throughout the country and to contribute to the search of good young talents. Thirteen of them, are nationally qualified to grant masters degree and some are starting to grant PhD degrees. The other group of six centers are beginning to grant master degrees or organizing themselves to do so.

It was decided by the Council that part of the budget of INCTMat would go to the Developing Centers to acquire books, electronic equipments and provide their researchers with the possibility of traveling to other scientific centers and having visitors to work with them in research projects or to participate in local events. All of the 19 Centers were provided with scientific initiation fellowships for their brightest and graduated students.

In the third meeting of the Council, done electronically, a complete list of activities of INCTMat in 2009 was presented, in particular events, namely conferences, symposia, workshops and schools as well as scientific exchange of researchers. There was a consensus that the planned activities have successfully taken place.

Another novelty: recently CAPES agreed to offer pos-doctoral fellowships to qualified applications by the INCTMat research groups and developing centers.

Cooperation among the INCTMat research groups

The cooperation among the INCTMat research groups is done mainly through events in more specific areas or more globally when involving different areas of mathematics like the Brazilian Mathematical Colloquium and the Biennial Mathematical Meeting, that take place in numbered and odd years, respectively. In these events we have an important participation of both undergraduate and graduate students as well as post-doctoral fellows and researchers.

It's to be pointed out that a relevant contribution is due to INCTMat in the format of tutorial introductory courses for mathematical communities in Latin America through EMALCA (Escuelas de Matematicas de America Latina y el Caribe) Amazonas, 2009, that took place in Manaus and the EMALCA Esquipulas, Guatemala. Also with advanced tutorial courses in CLAPEM – Latin American Congress of Probability and Mathematics Estatistic, that took place in Naiguata, Venezuela.

Cooperation between INCT´s

Joint workshop of the National Institutes of Science and Technology in Mathematics and for Climate Changes

It took place in the National Institute for Pure and Applied Mathematics – IMPA, in November 23-24th, 2009. The main objective was to explore possible research collaboration between members of the two Institutes. This objective was successfully achieved, since the workshop triggered much interest of several researchers drafting an strategic project concerning the hydro-geomechanics modeling of CO^2 sequestration / storage in the Brazilian pre-salt project of exploration of oil. Such a project has been approved by FAPERJ (Rio de Janeiro Foundation for the Promotion of Sciences), one of Agencies funding INCTMat.

Other topics were discussed at the workshop such as Climate Modeling and Scenarios, Multiscale in Climate Modeling, Propagation of Coastal Waves and Flows in Porous Media.
http://www.impa.br/opencms/pt/eventos/store_old/evento_0912

Main Scientific Results

Substantially more than 470 research articles were published and more than 207 were accepted for publication in journals of international circulation including the following ones considered to be the very best, Annals of Mathematics, Acta Mathematica, Publications Mathematiques Inst. Hautes Etudes Scientifiques, Annales de l´Inst. Henri Poincare, Mathematical Programming, SIAM, among others. Notice that 470 articles published and 207 articles accepted for publication were informed by researchers of INCTMat and are listed below.

According to “Source: National Swcience Indicators - Standard Data Base - ISI Thomson Reuters 2008”, the number of publications in mathematics by Brazilian researchers for the period 2004-2008 is 2.230 articles, corresponding to an average of 446 articles per year. Thus, we are achieving substantial increase and the number of research publications in mathematics in indexed journals, including several of the most prestigious ones.

Another indicator concerning our scientific production shows that mathematics is among three areas with the highest average impact in the publications compared with the respective world average impact – practically equal – which again shows that INCTMat is achieving its goals. We observe that the world average impact of scientific publications is heavily concentrated in the advanced countries. (Source: National Swcience Indicators - Standard Data Base - ISI Thomson Reuters).

Publications

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1. Pacheco - Aftab Pande,
2. Araujo - Nicolas Puignau,
3. E. Esteves - Francesco Noseda
4. E. Esteves - Luis López
5. V. Futorny - Jonas Torbjorn Hartwig (Suécia), bolsa pós-doc.
6. I. Chestakov - Manuel Arenas (FAPESP), 01/03/2008 - 28/02/2009.
7. I. Chestakov - Eugeny Chibrikov (FAPESP), 01/07/2008 – 30/06/2009.
8. I. Chestakov - Juaci Picanço da Silva (UFPA), 2008 - 2009.
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The group pf topology and Singularity supervises 2 posdocs.

33. Andrés Koropecki. Universidade Federal Fluminense. Supervisor: Sebastião Firmo.
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38. Edson Alberto Coayla Terán – LNCC, 2009

IMPA – 290 pós-docs long and short periods during 2009.

PhD – completed

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29. Cristian Ortiz, Multiplicative Dirac structures, IMPA
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32. Thiago de Melo- ICMC-USP, 2009 Supervisor: Mauro Spreafico
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46. Wesley V. I. Shirabayashi, DMA-Unicamp, 2009. Supervisor: Sandra A. Santos, Co-orientador: Roberto Andreani.
47. Esdras Soares de Medeiros Filho. IMPA 2009 Advisor: Luiz Velho and Helio Lopes
48. Anderson Mayrink da Cunha. IMPA, 2009. Advisor: Luiz Velho
49. Sergio Krakowski Costa Rego. IMPA, 2009. Advisor: Luiz Velho and Francois Pachet
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PhD - in Progress

1. Aline Gomes Cerqueira - 01/08/2006 Carlos Gustavo Moreira
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35. Cinthya Schneider (**PhD**, UFRGS, J. Ripoll)
36. Rodrigo Barbosa Soares (**PhD**, UFRGS, J. Ripoll)
37. Miriam Telichevsky (**PhD**, UFRGS, J. Ripoll)
38. Flávio França Cruz (**PhD**, UFC, J. Lira)
39. Fabiana Alves dos Santos (**PhD**, UFC, J. Lira)
40. Carlos A. David Ribeiro (**PhD**, UFC, J. Lira)
41. Eliane da Silva dos Santos (**PhD**, USP, R. M. Chaves)
42. Gabriela Sander (**PhD**, USP, R. M. Chaves)
43. Bruno Mendonça Rey dos Santos (**PhD**, UFSCar, R. Tojeiro)
44. (Adviser:M. B. Jardim) Paula Gneri (**doutorado**, bolsa CNPQ)
45. (Adviser:M. B. Jardim) Vitor Moretto (**PhD**, bolsa CNPQ) T
46. (Adviser:M. B. Jardim) Daniela Prata (**PhD**, bolsa FAPESP)
47. (Adviser:C. E. Duran, Co orientador M. B. Jardim) Henrique Vitório (**PhD**)
48. (Adviser:A. A. Moura) Angelo Calil Bianchi (**PhD** - Início 03/2008)
49. (Adviser:A. A. Moura) Tiago R. Macedo (**PhD** - Início 03/2009)
50. (Adviser: C. E. Durán) Cíntia Rodrigues de Araújo Peixoto, **PhD**
51. Bianka Carneiro Leandro (**PhD**, UnB, K. Tenenblat)
52. Verissimo Pereira Gomes Neto (**PhD**, UnB, K. Tenenblat)
53. Marcelo Lopes Ferro (**PhD**, UnB, K. Tenenblat)
54. Anyelle Nogueira de Souza (**PhD**, UnB, K. Tenenblat)
55. Claudiano Goulart (**PhD**, UnB, K. Tenenblat)
56. Miguel Junior Cezana (**PhD**, UnB, K. Tenenblat)
57. João Paulo dos Santos (**PhD**, UnB, K. Tenenblat)

58. Sérgio Martins, **PhD** , IME—USP, P. Piccione
59. Cleber de Medeira, (Co-adviser: A.P. Bergamasco e S.L. Zani)
60. Luis Cl´audio Yamaoka, (adviser: P. Cordaro)
61. Tiago Henrique Picon, (adviser: J. Hounie)
62. Paulo Antˆonio Liboni Filho, (adviser: J. Hounie)
63. Francisco Braun, (adviser: J. R. dos Santos Filho)
64. Romel da Rosa da Silva, (adviser: J. R. dos Santos Filho)
65. Roxana Bedoya, (Co- adviser: C. Kondo e L.A. Carvalho dos Santos)
66. Rafael Fernando Barostichi, (Co- adviser: P. Cordaro e G. Petronilho)
67. Alexandra Menis (adviser: J. Hounie)
68. Jose Manuel Jimenez Urrea, adviser Felipe Linares.
69. Juan Carlos Cordero Ceballos, adviser Felipe Linares.
70. Vanessa Barros, adviser Felipe Linares.
71. Dugan Paul Nina Ortiz, adviser Ademir Pazoto.
72. Gilmar dos Reis Souza, adviser Ademir Pazoto.
73. Ricardo Pastran, adviser Xavier Carvajal.
74. Eder Ritis Aragão Costa adviser: Alexandre Nolasco de Carvalho
75. Paulo Mendes de Carvalho Neto adviser: Alexandre Nolasco de Carvalho
76. Flank David Morais Bezerra adviser: Alexandre Nolasco de Carvalho
77. Matheus Cheque Bortolan adviser: Alexandre Nolasco de Carvalho
78. Alisson Rafael Aquiar Barbosa adviser: Ma To Fu
79. Márcio Antonio Jorge da Silva adviser: Ma To Fu
80. Vando Narciso adviser: Ma To Fu
81. Marcos Tadeu de Oliveira Pimenta adviser: Sergio Henrique Monari Soares
82. Luis Henrique de Miranda adviser: Gabriela dell Valle Planas
83. Gleiciane da Silva Aragão adviser: Sérgio Muniz Oliva
84. Michele de Oliveira Alves adviser: Sérgio Muniz Oliva
85. Rodiak Nicolai Figueroa López adviser: German Jesus Lozada Cruz
86. Bruno Ribeiro; adviser: D.G. de Figueiredo
87. Jiazheng Zhou; adviser: Jose Valdo Goncalves
88. Manuela Rezende; adviser: Jose Valdo Goncalves
89. Jeffferson Abrantes; adviser: Jose Valdo Goncalves
90. Jose Pablo Pinheiro da Silva; adviser: Marcelo Furtado
91. José CalNeto; adviser: Carlos Tomei
92. Eduardo Teles; adviser: Carlos Tomei
93. Gleydson Chaves Ricarte; adviser: Eduardo Teixeira
94. Michel Pinho Rebouças; adviser: Eduardo Teixeira
95. Damião Júnio Gonçalves; adviser: Eduardo Teixeira
96. Renato Jacob Gava, IME-USP (2007-...) adviser L. R. Fontes
97. Leon Alexander Valencia Henao, IME-USP (2008-...) adviser L. R. Fontes
98. Heloisa Maria de Oliveira, IMECC-UNICAMP, PhD, (adviser Marina Vashkovskaia)
99. Cezar AnselmoInício: 2009. adviser: Aluisio Pinheiro
100. Marcio Valk. adviser: Aluisio Pinheiro
101. Airton Kist. adviser: Aluisio Pinheiro
102. Lucas Moreira. adviser: Nancy L. Garcia
103. Walter Carvalho. PhD. adviser: Nancy L. Garcia
104. David Henriques da Matta. adviser: Nancy L. Garcia

105. Adeilton Alcantara. adviser: Ronaldo Dias
106. Thiago Morais Pinto (PhD, adviser Aldo Procacci)
107. Roger W.C. Silva; adviser: Bernardo N. B. de Lima e Remy Sanchis)
108. Rogerio Gomes Alves (adviser: Aldo Procacci e Bernardo N B de Lima)
109. Rodrigo Geraldo do Couto(adviser: Bernardo N B de Lima e Remy Sanchis
110. Marcelo Hilario, IMPA, adviser: V. Sidoravicius.
111. Fábio Mariano Bayer. (adviser: F. Cribari Neto)
112. Tarciana Liberal Pereira. (adviser: F. Cribari Neto)
113. Tatiene Correia de Souza. (adviser: F. Cribari Neto)
114. Fabiano Fortunato Teixeira dos Santos (Matemática UnB)
115. Luciene Pinheiro Lopes (Maemática UnB)
116. Magno Alves de Oliveira (Maemática UnB)
117. Walter Batista dos Santos (Maemática UnB)
118. Raquel Romes Linhares; adviser. Silvia Lopes
119. Guilherme Pumi ; adviser. Silvia Lopes
120. Taiane Schaedler Prass; adviser. Silvia Lopes
121. Felipe de Medeiros, (UFRJ)
122. Thiago Drummond (IMPA)
123. Fernando Del Carpio (IMPA)

The group of Topology and Singularity has 11 students of PhD (in progress)

135. Panters Bermudez (IMPA) adviser: Dan Marchesin
136. Pablo Castaneda (IMPA) adviser: Dan Marchesin
137. Julio Daniel da Silva (IMPA) adviser: Dan Marchesin
138. Helmut Alexander Duran - (IMPA) adviser: Dan Marchesin
139. Vanessa da Silva Simões - (IMPA) adviser: Andre Nachbin
140. Yoisell Rodriguez Nunez - (IMPA) adviser: André Nachbin
141. Carlo Pietro Souza da Silva - (IMPA) adviser: Aloísio Araújo
142. Marcelo de Carvalho Griebeler - (IMPA) adviser: Aloísio Araújo
143. Dalila Melissa Bonilla Correa – IMPA – adviser: Luiz Velho
144. Ives José de Albuquerque Macedo Junior – IMPA – adviser: Luiz Velho
145. Leonardo de Oliveira Carvalho – IMPA – adviser: Luiz Velho
146. Sergio Krakowski Costa Rego – IMPA – adviser: Luiz Velho
147. Aniel Ojeda Alvarez – IMPA – adviser: Jorge Zubelli
148. Michel Molina del Sol – IMPA – adviser: Jorge Zubelli
149. Nara Bobko – IMPA – adviser: Jorge Zubelli
150. Vinicius Viana Luiz Albani – IMPA – adviser: Jorge Zubelli
151. Yuri Fahham Saporito – IMPA – adviser: Jorge Zubelli
152. Ariane Luzia dos Santos – UNICAMP
153. Bárbara Costa da Silva – UFPE
154. Carla Lopes Dias – Universidade do Porto
155. Kleyber Mota da Cunha – USP/São Carlos
156. Luciana Silva Salgado – UFRJ
157. Manuela da Silva Souza - UNICAMP
158. Mariana Pinheiro Gomes da Silva – UFRJ
159. Tiago Estrela de Oliveira – USP
160. Yuri Ki – PUC
161. Marco Antonio Lazaro Velásquez (UFC) adviser: Henrique Fernandes de Lima

162. Luciana Roze de Freitas (USP-São Carlos) adviser: Claudianor Oliveira Alves
163. Jefferson Abrantes dos Santos (UnB) Co-adviser: Claudianor Oliveira Alves
164. Amanda dos Santos Gomes, IME-USP (Estatística)
165. Diogo Diniz Pereira da Silva e Silva, UNICAMP (Álgebra)
166. Joseilson Raimundo de Lima, UFC (Geometria)

The Developing Center of Paraná has 11 students that finished the Máster degree and are now doing the PhD theses

167. Alessandro Gaio Chimenton: - IMPA.
168. André Luiz Furtado: - ICMC-USP.
169. Angelo Miguel Malaquias: - Unicamp.
170. Cleber de Medeira: - ICMC-USP.
171. Eduardo Xavier Miqules: - Unicamp.
172. Emidio Santos Portilho Junior: - Unicamp.
173. Helder Geovane Gomes de Lima: - USP.
174. José Rafael Santos Furlanetto: - UFMG.
175. Mehran Sabeti: - UFPE.
176. Rodrigo Bloot: - Unicamp.
177. Vinícius José Henrique da Costa Leonardi: - Unicamp.
178. Cícero Pedro de Aquino – Universidade Federal do Ceará
179. Isaias Pereira de Jesus - Universidade Federal do Ceará
180. João Benício de Melo Neto - Universidade Federal do Rio de Janeiro/COPPE
181. Bruno Ferreira Rizzuti; adviser: Alexei A. Deriglazov
182. Luciene Rezende Gonçalves; adviser: Thelma Sáfadi
183. Josiane Magalhães Teixeira; adviser: Thelma Sáfadi
184. Rejane Corrêa da Rocha; adviser: Thelma Sáfadi
185. Ana Paula Coelho Madeira; Lucas Monteiro Chaves
186. Renata pires Gonçalves; Lucas Monteiro Chaves
187. Adriano Rodrigues; adviser: Lucas Monteiro Chaves
188. Fábio Alexandre de Matos. UNICAMP.
189. Flaviano Bahia Paulinelli Vieira. UFMG
190. Rejane Correia da Rocha. UFLA.
191. Ronaldo Ribeiro Alves. UFRJ.

Master – complete

1. Juan Fernando Zapata Zapata- IME-USP. adviser: A. C. Asperti
2. *D*aniela M. Prata (**mestrado**, Unicamp), adviser: M. B. Jardim
3. Vitor Moretto (**mestrado**, Unicamp), adviser: M. B. Jardim
4. Tiago R. Macedo (**Mestrado** - Unicamp), adviser: A. Moura
5. Ana Claudia da Silva Moreira (**Mestrado** Unicamp), adviser: C. Duran, *O*
6. Llohann Dallagnol Sperança (**Mestrado**, Unicamp), adviser: C. Duran,
7. João Paulo Dos Santos (**Mestrado**, Unb), adviser: K. Tenenblat
8. Andréia Malacarne adviser: Alcides Lins Neto
9. Rick Antônio Rischter adviser: Jacob Palis
10. Maurício De Lemos Rodrigues Collares Neto adviser: Marcelo Miranda
11. Paulo Antônio Liboni Filho, UFSCar, 2009 (adviser: J. Hounie)
12. Roxana Bedoya Prado, UFSCar, 2009 (adviser: L.A. Carvalho dos Santos)
13. Leonardo ´Avila, USP , 2009 (adviser: S. Zani)

14. Alex Santana dos Santos, orientador Adan Corcho.
15. Darliton Cezario Romão, adviserAdan Corcho.
16. Everrson Fernando Santos Feitosa, adviserAdan Corcho.
17. Gleison do Nascimento Santos, adviserDidier Pilod.
18. Pedro Monteiro de Castro Souza, adviserAniura Milanes.
19. Paulo Mendes de Carvalho Neto adviser: Gabriela del Valle Planas
20. Rodiak Nicolai Figueroa López adviser: German Jesus Lozada Cruz
21. Diogo de Santana Germano. adviser: Uberlandio Batista Severo.
22. Jairo Santos da Silva. adviser: Uberlandio Batista Severo.
23. Robson Pereira de Sousa adviser: Antonio de Andrade e Silva.
24. Gerson Cruz Araújo. adviser: Fernando Antonio Xavier de Souza.
25. Marcos Aurélio Guimarães Monteiro. adviser: Daniel Marinho Pellegrino.
26. José Francisco Alves de Oliveira. Adviser: João Marcos Bezerra do Ó.
27. Felipe Wallison Chaves Silva. Adviser: Fagner Dias Araruna.
28. Murilo Chavedar de Souza Araújo Adviser: Pedro A. Hinojosa.
29. Aana Cecília Costa de Freitas Adviser: Daniel Pellegrinmo.
30. Juan Carlo da Cruiz Silva Adviser: Daniel Pellegrinmo.
31. Daniel Ordine Vieira Lopes Adviser: Nathan Berkovits

Were completed in 2009, five master's dissertations on the team Topology and Singularity

37. Fernanda Téles Nunes, DMA-Unicamp. 2009 . Adviser: Maria Aparecida Ehrhardt.
38. Rafael Lobato, IME-USP, 2009. Adviser: Ernesto Birgin.
39. Fernando Camargo, IME-USP, 2009. Adviser: Ernesto Birgin.
40. Ricardo Abrantes, IME-USP, 2009. Adviser: Ernesto Birgin.
41. Francisco Sobral, IME-USP, 2009. Adviser: Ernesto Birgin.
42. Thadeu A. Senne, DMA-UNICAMP 2009. Adviser: Francisco Gomes.

The Developing Center of Alagoas has a forecast of 13 Masters theses defended in 2009.

56. Elzimar de Oliveira Rufino. Adviser: Victor Ayala Bravo (UCN-Chile)
57. José Amauri Siqueira da Silva. Adviser: Cícero Augusto Mota Cavalcante
58. José Ribamar da Silva Moreira. Adviser: Cícero Augusto Mota Cavalcante
59. Leda Maria de Araújo Câmara. Adviser: Cícero Augusto Mota Cavalcante
60. Walter Lucas Pinto Júnior. Adviser: Cícero Augusto Mota Cavalcante
61. Orientando: Cleiton Lira Cunha. Adviser: José Kennedy Martins.
62. José Mir Justino da Costa. Adviser: José Raimundo Gomes Pereira.
63. Lyne Abuim de Vasconcelos Marques. Adviser: José Raimundo Gomes Pereira.
64. Elainne Ladislau Pereira Ferreira. Adviser: Sheila Campos Chagas.
65. Kelvin Souza de Oliveira. Adviser: Sheila Campos Chagas.

The Developing Center of Bahia has had 09 Masters in 2009.

72. Francisca Leidmar Josué Vieira. Adviser: Francisco Júlio Sobreira Araújo Corrêa.
73. Rodrigo Cohen Mota Nemer. Adviser: Marco Aurélio Soares Souto.
74. Carlos David de Carvalho Lobão. Adviser: Sérgio Mota Alves.
75. Maria Joseane Felipe Guedes. Adviser: Aparecido Jesuíno de Souza.
76. Rivaldo do Nascimento Júnior. Adviser: Sérgio Mota Alves.
77. Leomaques Francisco Silva Bernardo.Adviser: Antonio Pereira Brandão Júnior.
78. José Eder Salvador de Vasconcelos Adviser: Bráulio Maia Júnior.
79. Matheus Brioschi Herkenhoff Vieira Adviser: Ricardo Soares Leite
80. Pedro Matos da Silva Adviser: Valmecir A. S. Bayer
81. Stanley Profilo Adviser: Valmecir A. S. Bayer

82. Paulo Henrique Souza da Costa Adviser: Magda Xavier

The Developing Center of Goiás had 25 dissertations in mathematics in 2009, from EMI/UFG

107. Vera Lucia Graciani Adviser**:** Prof. Martinho da Costa Araújo

108. Paulo Cesar Carmona Tabares Adviser**:** Prof. Miklós Farkas **Co-orientador:** Prof. Jocirei Dias Ferreira

109. Rodrigo Castro Adviser**: Prof.** Jocirei Dias Ferreira

The Developing Center of Para had 17 dissertations in 2009.

The Developing Center of Paraná had 3 dissertations in 2009.

131. Daniel Hilário da Silva – UFU
132. Juliana Lázara Curcino Viana – UFU
133. Leandro Cruvinel Lemes – UFU
134. Paulo Henrique Barbosa Galdino – UFU
135. Wanda Aparecida Lopes. – UFU
136. Wilian Eurípedes Vieira – UFU
137. Ricardo Marques da Cost Adviser: Thelma Sáfadi
138. André Luiz França Batista Adviser: Thelma Sáfad
139. Devanil Jaques de Souza Adviser: Lucas Monteiro Chaves

Masrters – in progress

1. Renato Ghini Bettiol, Mestrado em Matemática, IME—USP, P. Piccione
2. Álvaro Júlio Yucra Hancco (UFSCar, G. Lobos)
3. Marcos Antonucci Ferreira (UFSCar, G. Lobos)
4. Maria Rosilene Barroso dos Santos (UFSCar, R. Tojeiro)
5. Rafael Briquet (USP, M. Alexandrino)
6. (Adviser M. B. Jardim) Patrícia Borges dos Santos
7. (Adviser M. B. Jardim) Marcelo Gonçalves de Martino
8. (Adviser M. B. Jardim) Rodrigo Pires dos Santos
9. (Adviser M. B. Jardim) Fábio Melo
10. (Adviser R. Mosna) Danilo Borim do Nascimento.
11. (Adviser R. Mosna) Gustavo Marques Tavares. Mestrado em Física, IFGW/UNICAMP. "Teorias de gauge: aspectos dinâmicos e topológicos". Início: março/2008.
12. (Adviser A. A. Moura) Fernanda Pereira
13. (Adviser A. A. Moura) Matheus Batagini Brito
14. (Adviser C. E. Durán) Diego Mano Otero
15. Alan Gerardo Reyes Figueroa (Adviser : Hossein Movasati)
16. Jacqueline Rodrigues Oliveira Adviser : Enrique Ramiro Pujals
17. Philip Thompson Adviser : Marcelo Miranda Viana Da Silva Rafael
18. Montezuma Pinheiro Adviser : Marcelo Miranda Viana Da Silva
19. Riane Aparecida Da Silva Mélo Adviser : Alcides Lins Neto
20. Susana Frometa Fernandez Adviser : Carlos Gustavo Moreira
21. Tiane Marcarini Pinto Adviser : Carlos Gustavo Moreira
22. Rafael Borro Gonzalez, USP (Adviser : A. P. Bergamasco)
23. Moisés Aparecido do Nascimento, UFSCar (Adviser : L.A. Carvalho dos Santos)
24. Aldo Vieira Pinto, UFSCar (Adviser : J. R. dos Santos Filho)
25. Renato Andrielli Laguna, USP (Adviser : S. Zani)

26. Andreza Cristina Beez˜ao, USP (Adviser : S. Zani)
27. Fábio Antonio Araujo de Campos Adviser : Ma To Fu
28. Moreno Pereira Bonutti Adviser : Sergio Henrique Monari Soares
29. Rafael Antônio Rossato Adviser : Eugenio Tommaso Massa
30. Rosemeire Aparecida Rosa Adviser : German Jesus Lozada Cruz
31. André Azevedo Paes de Barros Adviser : German Jesus Lozada Cruz
32. Glauce Barbosa Verão Adviser : German Jesus Lozada Cruz
33. Jucilene de Fátima Pavan Adviser : German Jesus Lozada Cruz
34. Marcelo Dário dos Santos Amaral; Orientador: Eduardo Teixiera
35. João Vítor da Silva; Orientador: Adviser Teixiera
36. Daniel Hilário da Silva; Adviser : Olimpio Miyagaki
37. Paulo Angelo Resende (Adviser : Catia R. Gonçalves)
38. Simone V. da Silva (Adviser : Catia R. Gonçalves)
39. Renato F. da Cruz (Adviser : Ary V. Medino)
40. Andrey B. Guimarães (Adviser : Ary V. Medino)
41. Lutemberg Florêncio. (Adviser . F. Cribari Neto; Co-orientador: Raydonal Ospina.
42. Avelino Viana ---
43. Douglas Rodrigues Pinto ---
44. Gabriela Betella Cybis ---

The group of Topology and Singularity guides currently 6 students Masters.

51. Luciano Martins Barros. Adviser : Aparecido Jesuíno de Souza
52. Natan de Assis Lima. Adviser : Francisco Júlio Sobreira de Araújo Corrêa
53. Sabrina Alves de Freitas. Adviser : Antônio Pereira Brandão Jr.
54. Geizane Lima da Silva. Adviser : Ângelo Roncalli Furtado de Holanda
55. Sheyla Silva Marinho. Adviser : Marco Aurelio Soares Souto
56. Jackson Jonas Silva Costa. Adviser : Daniel Cordeiro de Morais Filho
57. Jéssyca Lange Ferreira Melo. Adviser : Claudianor Oliveira Alves
58. Wellington Kister do Nascimento Adviser : Valdério Reisen
59. Luana de Oliveira Justo Adviser : José Gilvan de Oliveira
60. Guilbert de Arruda Souza Adviser : Valmecir A. S. Bayer
61. Carolina Cruz Mendes Buosi Adviser : Valmecir A. S. Bayer
62. Anderson Dias Lima Adviser : . Geraldo Lucio Diniz
63. Thiago Emmanuel Moreira Rosa Adviser : . Geraldo Lucio Diniz
64. Ronaldo Baumgartner Adviser : . Geraldo Lucio Diniz
65. Carlos Andres Trujillo Salayar Adviser : Prof. Jocirei Dias Ferreira
66. Alejandra Adviser : Prof. Jocirei Dias Ferreira

The Developing Center of Piauí has 3 dissertations in progress.

70. Alessandra Ribeiro da Silva - UFU.
71. Carolina Fernandes Molina Sanches - UFU.
72. Danilo Adrian Marques- UFU.
73. Lais Bássame Rodrigues - UFU.
74. Marcelo Ferreira - UFU.
75. Marcelo Lopes Vieira - UFU.

76. Marta Helena de Oliveira - UFU.
77. Milena Almeida Leite Brandão - UFU.
78. Tatiana Aparecida Gouveia - UFV.
79. Poliana Luz Moreira - UFV.
80. Vinícius Vivaldino Pires de Almeida - UFV.
81. João de Deus Oliveira Junior - UFV.
82. Luciano Cordeiro de Oliveira - UFV.
83. Marcus Roberto Marcia l - UFV
84. Lílian Neves Santa Rosa - UFV
85. Marcos Barros de Paula - UFV
86. Jefferson Gonçalves Figueiras; Adviser: Alexei A. Deriglazov
87. Hernani Martins Junio; Adviser: Thelma Sáfadi
88. Franciella Marques da Costa; Adviser: Thelma Sáfadi
89. Alexandre da Silva Adão; Adviser: Lucas Monteiro Chaves
90. Paulo Henrique Salles; Adviser: Lucas Monteiro Chaves

Scientific Initiation

1. Hélio Pereira Jr., UFSCar, (Adviser: R. Kapp),
2. IDavid Evangelista da Silveira Junior, UFSCar, (Adviser: L.A. Carvalho dos Santos)
3. Francisco Caramello, UFSCar, (Adviser: J.R. dos Santos Filho),
4. Allan Roberto Fabossi, UFSCar, (Adviser: G. Hoepfner)
5. Guilherme Barbosa Magalhães Moraes, UFSCar, (Orientador: G. Hoepfner),
6. Erik Fernando de Amorim, USP, (Adviser: S. Zani),
7. Edgard Lourenço Junior Adviser: Ma To Fu
8. Matheus Dorival Leonardo Bombonato Menes Adviser: Sérgio Henrique Monari Soares
9. Edson Luis Geraldi Jr. Adviser: Hildebrando Munhoz Rodrigues
10. Arthur Geromel Fisher Adviser: Hildebrando Munhoz Rodrigues
11. Bruno Henrique Arena da Silva Adviser: Hildebrando Munhoz Rodrigues
12. João Felipe Cabral Moraes Adviser: Hildebrando Munhoz Rodrigues
13. Murilo Andrade Dias de Oliveira Adviser: Hildebrando Munhoz Rodrigues
14. Leandro de Souza Rosa Adviser: Hildebrando Munhoz Rodrigues
15. Faister Cabrera Carvalho Adviser: Gabriela dell Valle Planas
16. Thiago Sonnewend Diniz Ferreira Adviser: Gabriela dell Valle Planas
17. César Augusto Esteves das Neves Cardoso Adviser: Simone Mazzini Bruschi.
18. Artur Gonçalves Adviser: Eugenio Tommaso Massa
19. Marcus Vinícius Faria dos Santos Adviser: Janete Crema
20. Felipe Gabrielli Adviser: Karina Schiabel Silva
21. Kaisuky Kamimura Adviser: Karina Schiabel Silva
22. Flávia Endsfeldz Teixeira Adviser: Karina Schiabel Silva

The group of Topology and Singularity guides currently 11 undergraduate students
The Developing Center of Alagoas has 25 undergraduate students, with 12 presentations of papers at events
Thalisson Torres de Oliveira Adviser: Sheila Campos Chagas
58. Carla Almeida Rodrigues Adviser: Nilomar Vieira de Oliveira
59. André Carneiro da Rocha Adviser: Renato de Azevedo Tribuzy

60. João Filipe Bezerra Pereira Adviser: Renato de Azevedo Tribuzy
61. Audemir dos Santos Adviser: Cícero Augusto Mota Cavalcante
62. Ilana Zuila Monteiro Alves Adviser: Cícero Augusto Mota Cavalcante
63. Keyla Monica da Silva Cardoso Adviser: Mário Salvatierra Júnior
64. Daniele dos Santos Alencar Adviser: Roberto Cristóvão Mesquita Silva
65. Paulo Ricardo de Souza Rodrigues Adviser: Flávia Morgana de Oliveira Jacinto
66. Luiz Henrique Pinheiro Carvalho Adviser: Disney Douglas de Lima Oliveira
67. Raphael Ribeiro Costa Adviser: Ivan de Azevedo tribuzy
68. Diana Dorgam de Aguiar Adviser: Ivan de Azevedo Tribuzy
69. Renato Silva Pereira. Adviser: Ângelo Roncalli Furtado de Holanda
70. Rafael Baptista de Assis. Adviser: Severino Horacio da Silva
71. Rivaldo Bezerra de Aquino Filho. Adviser: Aparecido Jesuíno de Souza
72. Israel Buriti Galvão. Adviser: Francisco Júlio Sobreira de A. Corrêa
73. João Paulo Formiga de Meneses. Adviser: Jose de Arimateia Fernandes
74. Bruno Vinicius de Menezes Barros. Adviser: Luiz Antônio da Silva Medeiros
75. Eraldo Almeida Lima Júnior. Adviser: Marco Aurélio Soares Souto
76. Bruno Fontes de Sousa. Adviser: Vanio Fragoso de Melo
77. Bruno Sérgio Vasconcelos de Araújo. Adviser: Rosana Marques da Silva
78. Damares Pereira Monteiro. Adviser: Francisco Antonio de Morais
79. Maria de Sousa Leite Filha. Adviser: Francisco Antonio de Morais
80. Milton de Oliveira Assunção Junior. Adviser: Prof. Geraldo Lucio Diniz
81. Luis Fernando Grotti. Adviser: Prof. Ronie Peterson Dario
82. Rafael Augusto Alves Campos. Adviser: Prof. Ronie Peterson Dario
83. Rodrigo Gonçalves Trevisan. Adviser: Prof. Lee Yun Sheng
84. Dalvalice da Silva Cantanhede. Adviser: Prof. Maxwell Barros
85. Ermerson Rocha Araújo. Adviser: Prof. Nivaldo Muniz
86. Oliver Kolossoski Adviser: Luiz Carlos Matioli
87. Lilian Cordeiro Brambila Adviser: Alexandre Kirilov
88. Maikel Antônio Samuays Adviser: Alexandre Kirilov
89. Luana Fonseca Duarte Adviser: Eduardo Hoefel
90. Andre Luis Onorio Adviser:Liliana Gramani Cumin
91. Hevans Vinicius Pereira Adviser: Ailin Ruiz de Zarate
92. Janaina Schoeffel Adviser: Ailin Ruiz de Zarate
93. Daniel Messias Linck Adviser: Marcelo Muniz
94. Joacir Lucas de Oliveira Adviser:Marcelo Muniz
95. Thais Mayumi Batista Makuta Adviser:Marcelo Muniz
96. Rafael Castro Adviser: Marcelo Muniz
97. Clauciane Dias de Lima Adviser: Marcelo Muniz
98. Ricardo Forbeck Adviser: Marcelo Muniz
99. Priscila Savulski Ferreira Adviser: Elizabeth Karas
100. Karla Cristina Arsie Adviser: Elizabeth Karas
101. Jeferson Diniz Iniesta Adviser: Elizabeth Karas
102. Aline Cristina da Rocha Adviser: Yuan Jin Yun
103. Izabela Patrício Adviser: Yuan Jin Yun
104. Dalvana Tiburcio Adviser: Yuan Jin Yun
105. Moriah Fardo Adviser: Yuan Jin Yun
106. Tais Camila da Silva Moraes Adviser: Yuan Jin Yun (orientador)

107. Antônio Kelson Vieira da Silva, (UFPI)
108. Ítalo Dowell Lira Melo (UFPI)
109. Michele Ribeiro Fidelis, Adviser: Sonia M. Fernandes, UFV
110. Jailton Viana da Conceição, Adviser: Olimpio Hiroshi Miyagaki, UFV
111. Mateus Balbino Guimaraes, Adviser: Olimpio Hiroshi Miyagaki, UFV
112. Isaque Visa da Silva, Adviser: Catarina Mendes de Jesus, UFV
113. Jéferson Rômulo Pereira, Adviser: Catarina Mendes de Jesus, UFV
114. Victor do Nascimento Martins, UFV
115. Michely Santos Oliveira, UFV
116. Wanderley Nunes do Nascimento, UFV
117. Thiago Neves Mendonça, UFV
118. Isaque Visa da Silva, UFV
119. Jéferson Rômulo Pereira, UFV
120. Jailton Viana da Conceição, UFV
121. Plínio Oliveira Santana, UFV
122. Nilson Felipe Matos Mendes, UFV
123. Adelino Gussoni dos Santos, UFU
124. Kuang Hongy, UFU
125. Letícia Garcia Polac, UFU
126. Alexandre Chapiro, UFJF
127. Monalisa Reis, UFJF
128. André Desidéreo Maldonado, UFJF
129. Samuel Oliveira de Almeida; UFJF
130. Vanessa Aparecida Freire; UFLA
131. Maisa Kely de Melo; UFLA
132. Thiago Júnior Furtado Garcia; UFLA
133. Rafael Correia Fonseca; UFLA
134. Junior Assis Barreto Bernardes; UFLA
135. Ildalio Aguiar; UFMS
136. Claudia Steffany da Silva Miranda; UFMS
137. Ildalio Aguiar; Adviser.: Rúbia Mara de Oliveira Santos
138. Claudia Steffany da Silva Miranda; Adviser: Rúbia Mara de Oliveira Santos

The Developing Center of Pará hás six undergraduate students.
Also: Guidance for Students of Elementary and Secondary Education
Maria de Nazaré Carvalho Bezerra (Training Adviser of 5 students of OBMEP)
Augusto César dos Reis Costa (Training Adviser of 5 students of OBMEP)

The Developing Center of Espirito Santos has four scholarship for scientific initiation PIBIC/CNPq/ UFES; 17 fellows PICME – OBMEP/CNPq/CAPES; 12 fellows PET SESU/MEC; 42 fellows and 28 volunteers from scientific initiation junior of CNPq of OBMEP.

The Developing Center of Goias (IME/UFG) acts in the direction of the following training programs students (graduate level):

- PIBIC/ CNPq-UFG – 7 fellows
- PICME – 30 fellows (OBEMEP)
- Prolicen – 2 fellows
- PIBID – 4 fellows

- PET – 12 fellows
- Scietific Initiation/Balcão do CNPq – 2 fellows
- INCT – 3 fellows
- REUNI – 2 fellows

National and International Events:

In 2009, the INCTMat promoted a series of events such as Conferences, Symposia and Workshops on specific areas of research, as well as some events of more global nature involving research groups of all areas of research described in the Project. The main example, of this last kind of event is the Brazilian Mathematical Colloquium. The INCTMat also promote Schools, with tutorial courses of advanced or introductory levels, with the participation of large number of graduate and undergraduate students. The complete list of such events and their homepages is in Annex 1.

We observe that the approved INCTMat Project contemplate the promotion of events in Brazil and the support of events in Latin America of tutorial nature, advanced or introductory. The participation of Brazilian research in international events is financed by other sources presently available in the country.

Exchange of National and International Researchers

In its first (and incomplete, since activities started in March) year the exchange of researchers was many promoted by the Developing Centers which were granted with specific funding to this end, to stimulate their scientific advancement as can be seen in the list displayed in Annex 2.

We observe that the exchange of researchers will be more intensive in the next 2 years, as we have seen in the first months in 2010.

Activities in Human Resources Capacity Building

The INCTMat contributed in a significant way through the promotion of events and the exchange of researchers for the record numbers of 133 students concluding their PhDs and 396 students concluding their master degrees in 2009 in the global area of mathematics, including probability and statistics in qualified centers, according to data provided by CAPES. It corresponds to an increase of 13,7% from 2008 to 2009 in the number of PhD theses concluded, which points to a likely achievement of the goal set up by INCTMat, in accordance with its different research groups, of reaching 170/180 PhDs annually by 2011.

The list presented above is significant but incomplete due to the fact that the information collected from the different INCTMat research groups was obtained before the number of PhDs and aster were consolidated by CAPES.

Perspectives and Future Developments

The global and integrated advancement of Brazilian Mathematics as pointed by quantitative and qualitative indicators of scientific production, its presence in the Research Centers in all regions of the country, the increase of the number new PhDs annually, the search for new talents and the improvement of mathematical teaching, are main objectives of the Brazilian mathematical community, that recognize in the INCTMat a fundamental instrument to achieve such ambitious goals.

Thus, the perspective of achieving these goals is quite high. At the same time, new initiatives are being considered t with full support of the INCTMat, such as the Regional Colloquiums, to take place in the different regions of Brazil, a larger number of Schools of Mathematics involving high level researchers in different regions of Brazil and in other Latin America countries. Other initiatives are also being considered by the Scientific and Administrative Council of INCTMat.