

## **Relatório Técnico Parcial**

### **Instituto Nacional de Ciência e Tecnologia de Matemática – Avanço Global e Integrado da Matemática Brasileira**

#### **Reuniões Comitê Gestor**

Neste primeiro ano de gestão do Instituto Nacional de Ciência e Tecnologia, INCTMat, houve uma primeira reunião do Comitê Gestor para apresentação e discussão do projeto aprovado. A seguir, reuniu-se eletronicamente, adotando apoio específico para os Centros em Desenvolvimento e demais atividades relativas aos grupos temáticos de pesquisa que constam do projeto.

Ficou decidido que os Centros teriam apoio para aquisição de livros, equipamentos, diárias e passagens para pesquisadores visitantes qualificados e para pesquisadores locais participarem de intercâmbio em outros Centros e eventos. Também foram concedidas bolsas de iniciação científica aos 19 Centros espalhados por todo o Brasil, especialmente Norte, Nordeste e Centro-Oeste.

Já na terceira reunião realizada eletronicamente foi apresentado um balanço do primeiro ano do Projeto INCTMat. Uma lista completa de atividades do INCTMat deste primeiro ano foi enviada ao Comitê Gestor, em particular os eventos e escolas e também o intercâmbio científico promovidos pelo Instituto. Houve amplo consenso de que as atividades do INCTMat estão sendo cumpridas com sucesso conforme o planejamento inicial.

Quanto aos Centros em Desenvolvimento, eles estão divididos em Centros em Desenvolvimento Consolidados, em número de 13 e Centros em Consolidação, em número de 6. A novidade a este respeito foi a implantação de bolsas de iniciação científica.

O INCTMat dá apoio considerável aos mesmos, ampliando e fortalecendo o trabalho realizado em anos anteriores pelo Instituto do Milênio. Com ação conjunta das diversas Agências e, sobretudo, da Coordenação de Matemática da CAPES, a evolução científica destes Centros foi extremamente expressiva nos últimos anos, com a qualificação pela CAPES para o Mestrado, de todos os Centros Consolidados, e a qualificação para o Doutorado de vários deles, como o de Goiás e os recém implantados programas conjuntos UF Amazonas e UF Para, UF Alagoas e UF Bahia, e UF Paraíba e UF Campina Grande.

Outra novidade importante que passaremos a difundir, é que obtivemos recentemente, a disponibilização pela CAPES de bolsas de Pós-Doutorado (PNPD).

#### **Atividades de cooperação entre os grupos de participantes do INCTMat**

A interação entre os grupos de pesquisa se dá através, principalmente, da promoção de eventos, desde áreas mais específicas até aquelas de natureza mais global como o Colóquio Brasileiro de Matemática, que acontece em anos ímpares e a Bienal de Matemática que ocorre em anos pares. Nestes eventos temos uma participação

expressiva de alunos de graduação, pós-graduação, pós-doutorandos e pesquisadores em geral.

Houve contribuição relevante do INCTMat em forma de cursos tutoriais introdutórios para comunidades matemáticas da América Latina, através da EMALCA (Escuelas de Matematicas de America Latina y el Caribe) Amazonas 2009, realizada em Manaus e da EMALCA Esquipulas, Guatemala. Também com cursos tutoriais avançados através do CLAPEM - Congresso Latinoamericano de Probabilidade e Estatística Matemática, que teve lugar em Naiguata, Venezuela.

**Atividades de cooperação entre INCT's e com outras instituições**  
**Workshop Conjunto dos Institutos Nacionais de Ciência e Tecnologia de Matemática e para Mudanças Climáticas**

O Workshop Conjunto dos Institutos Nacionais de Ciência e Tecnologia de Matemática e para Mudanças Climáticas, realizado no IMPA no período de 23 a 24 de novembro de 2009, teve como objetivo explorar possíveis colaborações através de um ciclo de palestras proferidas por pesquisadores diretamente ligadas ao projeto e também convidados. Este objetivo foi plenamente atingido pois o evento disparou o interesse de vários pesquisadores na elaboração de um projeto estratégico sobre a modelagem hidro-geomecânica do armazenamento de CO<sub>2</sub> no pré-sal. O projeto "MODELAGEM HIDRO-GEOMECÂNICA DO SEQUESTRO GEOLÓGICO DE DIÓXIDO DE CARBONO NO PRÉ-SAL" com a participação do IMPA e LNCC, sob a liderança de Dan Marchesin e Marcio Murad, respectivamente, foi submetido ao programa PENSA-RIO da FAPERJ e recentemente aprovado, dando início a uma atividade colaborativa de pesquisa conjunta entre as INCT's de Matemática e de Mudanças Climáticas.

Os tópicos de interesse do Workshop giraram em torno de Algoritmos para Processamento de Alto Desempenho em Modelagem Climática, Armazenamento de CO<sub>2</sub>, Modelagem Climática e Geração de Cenários, Multiescala em Modelagem Climática, Propagação de Ondas Costeiras e Escoamento em Meios Porosos.

O Comitê Organizador foi composto por:

**INCTMat:** Dan Marchesin, André Nachbin, Jacob Palis

**INCT para Mudanças Climáticas:** Carlos Nobre, Pedro da Silva Dias

A programação científica incluiu 11 palestras distribuídas ao longo desses dois dias, além de uma apresentação de pôster. Uma síntese do evento, assim como a lista de palestrantes e o programa e os resumos das palestras estão disponíveis no endereço:

[http://www.impa.br/opencms/pt/eventos/store\\_old/evento\\_0912](http://www.impa.br/opencms/pt/eventos/store_old/evento_0912).

A exploração racional e soberana da riqueza gerada pelo petróleo e gás natural é um dos maiores desafios científicos e tecnológicos que o Brasil tem pela frente nas próximas décadas. A recente descoberta dos promissores reservatórios localizados na reserva de grandes dimensões conhecida como pré-sal, representa um novo potencial petrolífero para o País e trás para a agenda do estado e da sociedade brasileira, em particular para a comunidade científica, novos desafios científicos e tecnológicos os quais tendem a crescer de forma vertiginosa durante a fase operacional. Por outro lado, a exploração do

petróleo do pré-sal ocorre num momento em que as grandes nações estão explorando a possibilidade de tornar suas economias menos dependentes de combustíveis fósseis em função do impacto do uso desses combustíveis no aumento da concentração de gases de efeito estufa e do conseqüente aquecimento global (Painel Intergovernamental sobre as Mudanças Climáticas, IPCC 2007). Portanto é preciso que o Brasil aponte na direção do uso racional das reservas petrolíferas tendo em vista as questões ambientais. Análise detalhada da dinâmica do pré-sal será desenvolvida no projeto “MODELAGEM HIDRO-GEOMECÂNICA DO SEQUESTRO GEOLÓGICO DE DIÓXIDO DE CARBONO NO PRÉ-SAL” visando: (a) fornecer subsídios para avaliar a capacidade de armazenamento de dióxido de carbono (CO<sub>2</sub>) e (b) a otimização do uso da reserva petrolífera e explorando seu uso como um mecanismo de armazenamento de gases de efeito estufa da atmosfera conforme proposto pelo IPCC (Programa de Captura e Armazenamento de Dióxido de Carbono, IPCC 2007).

A seguir, são indicadas as palestras proferidas com os respectivos responsáveis, assim como a lista dos participantes (resumo disponível na página acima indicada):

**Pedro Leite (LNCC/MCT - IAG/USP)**

“Tratamento Numérico da Interação entre Escalas em Modelagem Climática”

**Grigori Chapiro (UFJF)**

“Ondas de Combustão gás-sólido em Meios Porosos”

**Carlos Nobre (INPE)**

“A Modelagem da Interação Biosfera-Atmosfera na Amazônia”

**Pablo Castaneda (IMPA)**

“Reatores Químicos em Meios Porosos”

**Andre Nachbin (IMPA)**

“Modelagem Matemática para Ondas de Enchente em Redes Hidrográficas”

**Ailín Ruiz de Zárate (UFPR)**

“Modelagem de Ondas Internas Interagindo com Topografia”

**Daniel Alfaro Vigo (IM/UFRJ)**

“Comportamento Efetivo de Ondas Internas Sobre Fundos Variáveis”

**Dan Marchesin e Helmut Wahanik (IMPA)**

“Carbon Dioxide Sequestration in Aquifers to Prevent Global Warming”

**Gilvan Sampaio de Oliveira (CCST/ INPE)**

“Modelo Brasileiro do Sistema Climático Global: Desafios e Oportunidades”

**Roberto de Almeida (INPE)**

“A Componente Oceânica do Modelo Brasileiro do Sistema Climático Global”

**Marcio Murad (LNCC/MCT)**

“Exploiting the Potential of Geomechanics in the Modeling of Long-Term Behavior of Geological CO<sub>2</sub> Sequestration”

E a apresentação do pôster:

“Sequestro de CO<sub>2</sub> em reservatórios petrolíferos”

**Panters Bermudez (IMPA)**

**Lista de Participantes:**

1. Ailín Ruiz de Zárate (UFPR)
2. Andre Nachbin (IMPA)

3. Carlos Eugenio Sauer Ayala (IMPA)
4. Carlos Henrique Alexandrino (Universidade Federal dos Vales do Jequitinhonha e Mucuri)
5. Carlos Nobre (INPE)
6. Dan Marchesin (IMPA)
7. Daniel Alfaro Vigo (IM/UFRJ)
8. Eduardo Cardoso de Abreu (IMPA)
9. Gilvan Sampaio de Oliveira (CCST/ INPE)
10. Grigori Chapiro (UFJF)
11. Helmut Wahanik (IMPA)
12. Instituto de Matemática Pura e Aplicada
13. Instituto de Matemática Pura e Aplicada
14. Julio Daniel Machado Silva
15. Marcio Murad (LNCC/MCT)
16. Pablo Castaneda (IMPA)
17. Panters Bermudez (IMPA)
18. Pedro Leite (LNCC/MCT - IAG/USP)
19. Roberto de Almeida (INPE)
20. Vanessa da Silva Simões

### **Principais resultados técnico-científicos**

No ano de 2009 foram publicados bem mais de 470 artigos (pois a informação que obtivemos é certamente incompleta) e mais de 270 aceitos para publicação em revistas de circulação internacional, inclusive as do mais alto nível na área de matemática (Annals of Mathematics, Acta Mathematica, Publications Mathematiques Inst. Hautes Etudes Scientifiques, Annales de l'Inst. Henri Poincaré, Mathematical Programming, SIAM, etc.). Segundo a fonte "Source: National Science Indicators - Standard Data Base - ISI Thomson Reuters 2008", o número de publicações da matemática brasileira para o período 2004-2008, 5 anos, é de 2.230 artigos, o que corresponde a uma média de 446 artigos por ano. Assim, estamos alcançando um avanço substancial nas publicações em revistas indexadas inclusive várias dentre as de maior prestígio científico.

Outro indicador que comprova a meta do INCTMat com respeito à produção científica é o fato de ser a matemática uma das três áreas com maior índice médio de impacto em suas publicações comparado ao índice médio mundial – praticamente igual – observando-se que este último concentra-se nos países cientificamente mais avançados. (Fonte "Source: National Science Indicators - Standard Data Base - ISI Thomson Reuters 2008").

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#### **Trabalhos em Atas de Congressos:**

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2. Garcia - a note on the Giulietti – Korchmaros maximal curve. A aparecer em Proc. AGCT-11 CIRM, Luminy-Marseille.
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9. Faria, M. B.; Palazzo, R. “Dois casos de emparelhamentos generalizados associados a tesselação  $\{12g-6,3\}$ ” nos anais do XXXII Congresso Nacional de Matemática Aplicada e Computacional, na UFMT em Cuiabá-MT ocorrido no período de 08 a 11 de setembro de 2009. Neste artigo tratamos a generalizações dos casos I e IV.
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11. Jafelice, R. S. M.; Almeida, C.G. Meyer, J. F. Vasconcelos, H. L., Dispersal of Leaf-Cutting Ants: Fuzzy Mathematical Modeling, Numerical Approximation and Simulations. IFSA World Congress - 2009 Eusflat Conference, 2009, Lisboa, p. 271-276.
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### Artigos Aceitos:

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2. S. Collier - Foliations of multiprojective spaces and a conjecture of Bernstein and Lunts. A aparecer no *Trans. Amer. Math. Soc.*
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10. Paulo Cezar Carvalho, Luiz Velho, Marcelo Cicconet, and Sergio Krakowski. "Metodos Matematicos e Computacionais em Musica". XXXII CNMAC, 2009. SBMAC.
11. Adriana Schulz, Eduardo da Silva, and Luiz Velho. "Compressive Sensing". 27 Coloquio Brasileiro de Matematica, 2009. SBM.
12. Paula Rodrigues, Asla Sá, and Luiz Velho. "Computer Animation: chapter Virtual Emotion to Expression: A Comprehensive Dynamic Emotion Model to Facial Expression Generation Using the MPEG-4 Standard", chapter 6. Nova Science Publishers, November 2009.
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#### **Pós-doutorados:**

1. Pacheco - Aftab Pande, bolsa de pós-doc jr. do CNPq
2. Araujo - Nicolas Puignau, bolsa de pós-doc jr do CNPq. Atualmente é Professor Adjunto do Departamento de Matemática Aplicada da Universidade Federal do Rio de Janeiro (UFRJ).
3. E. Esteves - Francesco Nosedà (de Dezembro de 2007 até Julho de 2009) bolsa pós-doc do CNPq. Atualmente é Professor Adjunto do Departamento de Matemática Aplicada da Universidade Federal do Rio de Janeiro (UFRJ).
4. E. Esteves - Luis López (desde Novembro de 2009) bolsa pós-doc do CNPq
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.
9. Pós- doutorado no IMPA – 290 pós-doutorado de períodos longos e curtos no decorrer de 2009.
10. (Supervisor M. B. Jardim) Johan Martens (pós-doutorado) Título do projeto: Fibrados de Higgs parabólicos
11. (Supervisor M. B. Jardim) Henrique Sá-Earp (pós-doutorado, bolsa FAPESP) Título do projeto: Instantons sobre  $G_2$ -variedades
12. Fernando Manfio (UFSCar, R. Tojeiro de Figueiredo Jr)
13. Max Valerio Lemes (UnB – K. Tenenblat)
14. Leonardo Marazzi (bolsa PDJ do CNPq)-doutorado em University of Purdue, USA. Supervisor do bolsista : Fernando Cardoso. Projeto de Pesquisa: Scattering Theory on Conformally Compact Manifolds, período
15. Dongjuan Niu Período: 04/2009 a 03/2010 Supervisor: M. C. Lopes Filho e H. J. Nussenzveig Lopes

16. Pós-doutorando: Huy Hoang Nguyen Período: 09/2009 a 08/2011 Supervisor: M. C. Lopes Filho e H. J. Nussenzveig Lopes
  17. Luiz Gustavo Farah Dias, supervisionado por Marcia Scialom.
  18. Ademir Pastor Ferreira, supervisionado por Felipe Linares.
  19. Seyed Amin Esfahani Rashidi, supervisionado por Jaime Angulo.
  20. Michelle Fernanda Pierri Hernández Supervisor: Alexandre Nolasco de Carvalho
  21. Sergio de Carvalho Bezerra (2007-2009); supervisor L. R. Fontes
  22. Rafael de Mattos Grisi (2009-...); supervisor L. R. Fontes
  23. Alexsandro Gallo. Supervisora: Nancy L. Garcia
  24. Sokol Ndreca-CNPq pos doc Supervisor: Aldo Procacci
  25. Luciano Calheiros Lapas (pos doutorando, UFMG)
  26. Alejandro Cabrera (IMPA)
  27. Antonio Ricco (IMPA)
  28. Dan Jane (IMPA)
  29. Yuri Aisaka
  30. Ever Aldo Arroyo
- A equipe de Topologia e Singularidade orienta hoje 2 pós-doutorados.
33. Andrés Koropecski. Universidade Federal Fluminense. Supervisor: Sebastião Firmo.
  34. Grazielle Feliciani Barbosa. Início: 2008. Instituto de Ciências Matemáticas e Computação de São Carlos. Supervisor: Marcelo José Saia.
  35. Imran Amed. Instituto de Ciências Matemáticas e de Computação. Supervisor: Maria Aparecida Soares Ruas.
  36. Mariana Silveira. Unicamp, Fundação de Amparo à Pesquisa do Estado de São Paulo. Supervisor: Ketty Abaroa de Rezende.
  37. Ana Lucia Pinheiro Lima – IMPA, 2009
  38. Edson Alberto Coayla Terán – LNCC, 2009
- O IMPA recebeu no ano de 2009 290 estagiários de pós-doutorado.

### **Doutorado – concluído**

1. Francisco Javier Valenzuela Henriquez; Orientador: Enrique Ramiro Pujals;
2. Evilson Da Silva Vieira; Orientador: Hossein Movasati;
3. Alien Herrera Torres; Orientador: Marcelo Miranda;
4. Carlos Bocker Neto; Orientador: Marcelo Viana;
5. Maria João Lima Soares De Resende Orientador: Marcelo Viana;
6. Omar Javier Solano Albornoz Orientador: Marcelo Viana;
7. Alexandre Lymberopoulos- IME-USP. Orientador: A.C. Asperti,
8. Sérgio de Moura Almaraz, **Doutorado**, IMPA, orientador: F. Codá
9. Almir Rogério Silva Santos, **Doutorado**, IMPA, orientador: F. Codá
10. Lisandra Sauer, **Doutorado**, UFRGS, orientador: J. Ripoll
11. Carmen Vieira Mathias. UFRGS, orientador: J. Ripoll e Arí João Aiolfi
12. Marcelo F. de Melo, **Doutorado**, UFC, Orientador: J. Lira,
13. Sinuê Dayan Barbero Lodovici, (**Doutorado**, USP), orientador: Paolo Piccione
14. Julio Cesar de Souza. UFPe, Orientador: Claudio Cuevas.
15. Airton Temistocles Gonçalves Castro. UFPE, Orientador: Claudio Cuevas.
16. Orientado: Sandro Marcos Guzzo. Co-Orientador: Gabriela Del Valle Planas
17. Orientado: Jean Carlos da Silva. Orientador: Hermano Frid Neto.
18. Carlos Alberto Branquet Brango, orientadores Jaime Angulo e Marcia Scialom.
19. Sandro Marcos Guzzo Co-Orientador: Gabriela del Valle Planas.

20. Ana Cláudia Pereira Orientadora: Cláudia Buttarello Gentile.
21. Taisa Junges Miotto; Orientador: D.G.de Figueiredo
22. Edcarlos Domingos; Orientador: D.G.de Figueiredo
23. Ana Claudia Pereira; Co-Orientador: Olimpio Hiroshi Miyagaki
24. Marcio Miotto. Orientador: Olimpio Hiroshi Miyagak
25. Ana Claudia Pereira Co-Orientador: Olimpio Hiroshi Miyagaki.
26. Rodrigo Bissacot Proença. Orientador: Aldo Procacci
27. Debora B. Ferreira (orientadora: Chang C.Y. Dorea). Tese defendida em 2009.
28. Tatiane Ferreira do Nascimento Melo da Silva. Co-orientador: F. Cribari Neto.  
Orientadora: Silvia L.P. Ferrari.
29. Cristian Ortiz, Multiplicative Dirac structures, IMPA, Março de 2009.
30. Geova Maciel, Orientador: Nathan Berkovits  
Foi concluída em 2009, 1 tese de doutorado na equipe de Topologia e Singularidade.
32. Thiago de Melo- ICMC-USP, 2009 Orientador: Mauro Spreafico
33. Luiz Roberto Hartmann Junior - ICMC-USP, Orientador: Mauro Spreafico
34. Hildebrane Augusto dos Santos - IME-USP, 2009 Orientador: Peter Ngai-Sing Wong –  
Co-orientadora: Fernanda Cardona
35. Aldício José Miranda - ICMC-USP, 2009 - Orientador: Victor Hugo Jorge Perez - Co-  
orientador: Marcelo Jose Saia.
36. Kennedy Martins Pedroso - PUC-Rio, 2009 Orientador: Paul Schweitzer.
37. Grigori Chapiro – IMPA – Orientador: Dan Marchesin
38. Ana Maria Soares – IMPA – Orientador: André Nachbin
39. Marina Andretta, IME-USP, Orientador: Ernesto G. Birgin.
40. José Yunier Bello Cruz, IMPA, 2009, Orientador: A. N. Iusem
41. Emerson Castelani, DMA-Unicamp, 2009. Orientador: J. M. Martínez.
42. Gabriel Haeser, DMA-Unicamp, 2009. Orientador: J. M. Martínez.
43. André L. Martinez, DMA-Unicamp, 2009. Orientador: J. M. Martínez.
44. Luiz A. Medeiros, DMA-Unicamp, 2009. Orientador: F. A. M. Gomes.
45. Lucas G. Pedroso, DMA-Unicamp, 2009. Orientador: J. M. Martínez, Co-orientadora:  
M. A. Diniz Ehrhardt.
46. Wesley V. I. Shirabayashi, DMA-Unicamp, 2009. Orientadora: 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
50. Leonardo Erick Muller. IMPA, 2009 Orientador: Jorge Zubelli
51. Ana Claudia Pereira. UFSCAR Co-Orientador: Olimpio Hiroshi Miyagaki
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54. Ana Claudia Pereira, UFSCar, Co-Orientador: Olimpio Hiroshi Miyagaki.
55. Taisa Junges, UNICAMP, Co-Orientador: Olimpio Hiroshi Miyagaki
56. Marcio Miotto, UFSCAR, Orientador: Olimpio Hiroshi Miyagaki.
57. Daniela Carine Ramires de Oliveira; UFLA
58. Marcos Santos de Oliveira; UFLA.
59. Luciane Teixeira Passos Giarola; UFLA

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1. Aline Gomes Cerqueira - 01/08/2006 Carlos Gustavo Moreira
2. Ana Tércia Monteiro Oliveira - 19/03/2007 Enrique Ramiro Pujals
3. Artem Raibekas - 01/08/2007 Enrique Ramiro Pujals
4. Arturo Ulises Fernandez Pérez - 01/03/2007 Alcides Lins Neto
5. Cristina Lizana Araneda - 01/03/2006 Enrique Ramiro Pujals
6. Elaís Cidely Souza Malheiro - 12/01/2010 Marcelo Miranda Viana Da Silva
7. Fernando Antonio De Araújo Carneiro- 01/03/2007 Enrique Ramiro Pujals
8. Gabriela Verónica Fernández Lamilla - 01/08/2005 César Leopoldo Camacho
9. Ítalo Raony Costa Lima –Integrada 01/03/2006 Artur Avila Cordeiro De Melo
10. Ivana de Vasconcellos Latosinski - 01/03/2005 Enrique Ramiro Pujals
11. Joacir Lucas De Oliveira Cnpq - Pdd - Doutorado Direto 10/08/2009 Hossein Movasati
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14. Liliana Puchuri Medina Capes - 01/03/2006 Alcides Lins Neto
15. Michel Cambrainha De Paula - Marcelo Miranda Viana Da Silva
16. Michel Molina Del Sol - 01/03/2006 Jorge Passamani Zubelli
17. Mohammad Fanaee - 01/03/2006 Marcelo Miranda Viana Da Silva
18. Pablo Andres Guarino Quiñones - 01/03/2008 Welington Celso De Melo
19. Pablo Dávalos De La Peña Capes - 01/08/2007 Enrique Ramiro Pujals
20. Patrícia Romano Cirilo - 01/03/2007 Enrique Ramiro Pujals
21. Ruben Edwin Lizarbe Monje - César Leopoldo Camacho
22. Samuel Barbosa Feitosa - 01/03/2008 Marcelo Miranda Viana Da Silva
23. Sergio Augusto Romaña Ibarra - 02/03/2009 Carlos Gustavo Moreira
24. Vanessa Ribeiro Ramos - 02/03/2009 Paulo Roberto Grossi Sad
25. Waliston Luiz Lopes Rodrigues Silva - 01/12/2004 Carlos Gustavo Moreira
26. Wanderson Costa e Silva - 08/08/2005 Alcides Lins Neto
27. Yuri Gomes Lima Faperj - 01/03/2007 Enrique Ramiro Pujals
28. Fabio Simas (**Doutorado**, L. Florit)
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44. (Orientador M. B. Jardim) Paula Gneri (**doutorado**, bolsa CNPQ)
45. (Orientador M. B. Jardim) Vitor Moretto (**doutorado**, bolsa CNPQ) Título do projeto:  
Teoria de representações e geometria algébrica
46. (Orientador M. B. Jardim) Daniela Prata (**doutorado**, bolsa FAPESP) Título do projeto:  
Fibrados Steiner e representações do quiver de Kronecker

47. (Orientador C. E. Duran, Co orientador M. B. Jardim) Henrique Vitório (**doutorado**)
48. (Orientador A. A. Moura) Angelo Calil Bianchi (**Doutorado** - Início 03/2008) - Representações de dimensão finita de hiperálgebras de laços torcidas e grupos quânticos.
49. (Orientador A. A. Moura) Tiago R. Macedo (**Doutorado** - Início 03/2009) – Variedades Bandeira Não Padrão de Grupos de Laços.
50. (Orientador C. E. Durán) Cíntia Rodrigues de Araújo Peixoto, **Doutorado em Matemática**. Aplicações das curvas de Jacobi em Geometria,
51. Bianka Carneiro Leandro (**Doutorado**, UnB, K. Tenenblat)
52. Verissimo Pereira Gomes Neto (**Doutorado**, UnB, K. Tenenblat)
53. Marcelo Lopes Ferro (**Doutorado**, UnB, K. Tenenblat)
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55. Claudiano Goulart (**Doutorado**, UnB, K. Tenenblat)
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57. João Paulo dos Santos (**Doutorado**, UnB, K. Tenenblat)
58. Sérgio Martins, **Doutorado em Matemática**, IME—USP, P. Piccione
59. Cleber de Medeira, (Co-orientadores: A.P. Bergamasco e S.L. Zani)
60. Luis Cláudio Yamaoka, (Orientador: P. Cordaro)
61. Tiago Henrique Picon, (Orientador: J. Hounie)
62. Paulo Antônio Liboni Filho, (Orientador: J. Hounie)
63. Francisco Braun, (Orientador: J. R. dos Santos Filho)
64. Romel da Rosa da Silva, (Orientador: J. R. dos Santos Filho)
65. Roxana Bedoya, (Co-orientadores: C. Kondo e L.A. Carvalho dos Santos)
66. Rafael Fernando Barostichi, (Co-orientadores: P. Cordaro e G. Petronilho)
67. Alexandra Menis (Orientador: J. Hounie)
68. Jose Manuel Jimenez Urrea, orientador Felipe Linares.
69. Juan Carlos Cordero Ceballos, orientador Felipe Linares.
70. Vanessa Barros, orientador Felipe Linares.
71. Dugan Paul Nina Ortiz, orientador Ademir Pazoto.
72. Gilmar dos Reis Souza, orientador Ademir Pazoto.
73. Ricardo Pastran, orientador Xavier Carvajal.
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75. Paulo Mendes de Carvalho Neto Orientador: Alexandre Nolasco de Carvalho
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77. Matheus Cheque Bortolan Orientador: Alexandre Nolasco de Carvalho
78. Alisson Rafael Aquiar Barbosa Orientador: Ma To Fu
79. Márcio Antonio Jorge da Silva Orientador: Ma To Fu
80. Vando Narciso Orientador: Ma To Fu
81. Marcos Tadeu de Oliveira Pimenta Orientador: Sergio Henrique Monari Soares
82. Luis Henrique de Miranda Orientadora: Gabriela dell Valle Planas
83. Gleiciane da Silva Aragão Orientador: Sérgio Muniz Oliva
84. Michele de Oliveira Alves Orientador: Sérgio Muniz Oliva
85. Rodiak Nicolai Figueroa López Orientador: German Jesus Lozada Cruz
86. Bruno Ribeiro; Orientador: D.G. de Figueiredo
87. Jiazheng Zhou; Orientador: Jose Valdo Goncalves
88. Manuela Rezende; Orientador: Jose Valdo Goncalves
89. Jefferson Abrantes; Orientador: Jose Valdo Goncalves
90. Jose Pablo Pinheiro da Silva; Orientador: Marcelo Furtado

91. José CalNeto; Orientador: Carlos Tomei
  92. Eduardo Teles; Orientador: Carlos Tomei
  93. Gleydson Chaves Ricarte; Orientador: Eduardo Teixeira
  94. Michel Pinho Rebouças; Orientador: Eduardo Teixeira
  95. Damião Júnio Gonçalves; Orientador: Eduardo Teixeira
  96. Renato Jacob Gava, IME-USP (2007-...) supervisor L. R. Fontes
  97. Leon Alexander Valencia Henao, IME-USP (2008-...) supervisor L. R. Fontes
  98. Heloisa Maria de Oliveira, IMECC-UNICAMP, doutorado, (supervisora Marina Vashkovskaia)
  99. Cezar Anselmo Inácio: 2009. Supervisor: Aluisio Pinheiro
  100. Marcio Valk. Supervisor: Aluisio Pinheiro
  101. Airton Kist. Supervisor: Aluisio Pinheiro
  102. Lucas Moreira. Supervisora: Nancy L. Garcia
  103. Walter Carvalho. Doutorado. Supervisora: Nancy L. Garcia
  104. David Henriques da Matta. Supervisora: Nancy L. Garcia
  105. Adeilton Alcantara. Supervisor: Ronaldo Dias
  106. Thiago Morais Pinto (doutorado, orientador Aldo Procacci)
  107. Roger W.C. Silva; orientadores: Bernardo N. B. de Lima e Remy Sanchis)
  108. Rogerio Gomes Alves (orientadores: Aldo Procacci e Bernardo N B de Lima)
  109. Rodrigo Geraldo do Couto (Orientadores: Bernardo N B de Lima e Remy Sanchis)
  110. Marcelo Hilario doutorando, IMPA, orientador: V. Sidoravicius.
  111. Fábio Mariano Bayer. (Orientador: F. Cribari Neto)
  112. Tarciana Liberal Pereira. (Orientador: F. Cribari Neto)
  113. Tatiene Correia de Souza. (Orientador: F. Cribari Neto)
  114. Fabiano Fortunato Teixeira dos Santos (doutorando, Matemática UnB)
  115. Luciene Pinheiro Lopes (doutorando, Matemática UnB)
  116. Magno Alves de Oliveira (doutorando, Matemática UnB)
  117. Walter Batista dos Santos (doutorando, Matemática UnB)
  118. Raquel Romes Linhares; orient. Silvia Lopes
  119. Guilherme Pumi ; orient. Silvia Lopes
  120. Taiane Schaedler Prass; Orient. Silvia Lopes
  121. Felipe de Medeiros, (UFRJ)
  122. Thiago Drummond (IMPA)
  123. Fernando Del Carpio (IMPA)
- A equipe de Topologia e Singularidade orienta atualmente 11 alunos de doutorado.
135. Panters Bermudez (IMPA) Orientador: Dan Marchesin
  136. Pablo Castaneda (IMPA) Orientador: Dan Marchesin
  137. Julio Daniel da Silva (IMPA) Orientador: Dan Marchesin
  138. Helmut Alexander Duran - (IMPA) Orientador: Dan Marchesin
  139. Vanessa da Silva Simões - (IMPA) Orientador: Andre Nachbin
  140. Yoissell Rodriguez Nunez - (IMPA) Orientador: André Nachbin
  141. Carlo Pietro Souza da Silva - (IMPA) Orientador: Aloísio Araújo
  142. Marcelo de Carvalho Griebeler - (IMPA) Orientador: Aloísio Araújo
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  145. Leonardo de Oliveira Carvalho – IMPA – Orientador: Luiz Velho
  146. Sergio Krakowski Costa Rego – IMPA – Orientador: Luiz Velho
  147. Aniel Ojeda Alvarez – IMPA – Orientador: Jorge Zubelli

148. Michel Molina del Sol – IMPA – Orientador: Jorge Zubelli
  149. Nara Bobko – IMPA – Orientador: Jorge Zubelli
  150. Vinicius Viana Luiz Albani – IMPA – Orientador: Jorge Zubelli
  151. Yuri Fahham Saporito – IMPA – Orientador: Jorge Zubelli
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  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
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  158. Mariana Pinheiro Gomes da Silva – UFRJ
  159. Tiago Estrela de Oliveira – USP
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  161. Marco Antonio Lazaro Velásquez (UFC) Orientador: Henrique Fernandes de Lima
  162. Luciana Roze de Freitas (USP-São Carlos) Orientador: Claudianor Oliveira Alves
  163. Jefferson Abrantes dos Santos (UnB) Co-Orientador: 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)
- O Centro em Desenvolvimento Consolidado do Paraná tem 11 egressos do mestrado cursando doutorado no momento:
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 Miquiles: - 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
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  180. João Benício de Melo Neto - Universidade Federal do Rio de Janeiro/COPPE
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  183. Josiane Magalhães Teixeira; Orientadora: Thelma Sáfadi
  184. Rejane Corrêa da Rocha; Orientadora: Thelma Sáfadi
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  186. Renata pires Gonçalves; Lucas Monteiro Chaves
  187. Adriano Rodrigues; Orientador: Lucas Monteiro Chaves
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  189. Flaviano Bahia Paulinelli Vieira. UFMG
  190. Rejane Correia da Rocha. UFLA.
  191. Ronaldo Ribeiro Alves. UFRJ.

**Mestrado – concluído**

1. Juan Fernando Zapata Zapata- IME-USP. Orientador: A. C. Asperti
  2. Daniela M. Prata (**mestrado**, Unicamp), orientador: M. B. Jardim
  3. Vitor Moretto (**mestrado**, Unicamp), orientador: M. B. Jardim
  4. Tiago R. Macedo (**Mestrado** - Unicamp), orientador: A. Moura
  5. Ana Claudia da Silva Moreira (**Mestrado** Unicamp), orientador: C. Duran, O
  6. Llohann Dallagnol Sperança (**Mestrado**, Unicamp), Orientador: C. Duran,
  7. João Paulo Dos Santos (**Mestrado**, Unb), Orientadora: K. Tenenblat
  8. Andréia Malacarne Orientador: Alcides Lins Neto
  9. Rick Antônio Rischter Orientador: Jacob Palis
  10. Maurício De Lemos Rodrigues Collares Neto Orientador: Marcelo Miranda
  11. Paulo Antônio Liboni Filho, UFSCar, 2009 (Orientador: J. Hounie)
  12. Roxana Bedoya Prado, UFSCar, 2009 (Orientador: L.A. Carvalho dos Santos)
  13. Leonardo ´Avila, USP , 2009 (Orientador: S. Zani)
  14. Alex Santana dos Santos, orientador Adan Corcho.
  15. Darliton Cezario Romão, orientador Adan Corcho.
  16. Everrson Fernando Santos Feitosa, orientador Adan Corcho.
  17. Gleison do Nascimento Santos, orientador Didier Pilod.
  18. Pedro Monteiro de Castro Souza, orientador Aniura Milanés.
  19. Paulo Mendes de Carvalho Neto Orientador: Gabriela del Valle Planas
  20. Rodiak Nicolai Figueroa López Orientador: German Jesus Lozada Cruz
  21. Diogo de Santana Germano. Orientador: Uberlandio Batista Severo.
  22. Jairo Santos da Silva. Orientador: Uberlandio Batista Severo.
  23. Robson Pereira de Sousa Orientador: Antonio de Andrade e Silva.
  24. Gerson Cruz Araújo. Orientador: Fernando Antonio Xavier de Souza.
  25. Marcos Aurélio Guimarães Monteiro. Orientador: Daniel Marinho Pellegrino.
  26. José Francisco Alves de Oliveira. Orientador: João Marcos Bezerra do Ó.
  27. Felipe Wallison Chaves Silva. Orientador: Fagner Dias Araruna.
  28. Murilo Chavedar de Souza Araújo Orientador: Pedro A. Hinojosa.
  29. Aana Cecília Costa de Freitas Orientador: Daniel Pellegrino.
  30. Juan Carlo da Cruz Silva Orientador: Daniel Pellegrino.
  31. Daniel Ordine Vieira Lopes Orientador: Nathan Berkovits
- Foram concluídas em 2009, 5 dissertações de mestrado na equipe de Topologia e Singularidade.
37. Fernanda Téles Nunes, DMA-Unicamp. 2009 . Orientadora: Maria Aparecida Ehrhardt.
  38. Rafael Lobato, IME-USP, 2009. Orientador: Ernesto Birgin.
  39. Fernando Camargo, IME-USP, 2009. Orientador: Ernesto Birgin.
  40. Ricardo Abrantes, IME-USP, 2009. Orientador: Ernesto Birgin.
  41. Francisco Sobral, IME-USP, 2009. Orientador: Ernesto Birgin.
  42. Thadeu A. Senne, DMA-UNICAMP 2009. Orientador: Francisco Gomes.

O Centro em Desenvolvimento Consolidado de Alagoas tem uma previsão de 13 teses de mestrados defendidas em 2009.

56. Elzimar de Oliveira Rufino. Orientador: Víctor Ayala Bravo (UCN-Chile)
57. José Amauri Siqueira da Silva. Orientador: Cícero Augusto Mota Cavalcante
58. José Ribamar da Silva Moreira. Orientador: Cícero Augusto Mota Cavalcante
59. Leda Maria de Araújo Câmara. Orientador: Cícero Augusto Mota Cavalcante
60. Walter Lucas Pinto Júnior. Orientador: Cícero Augusto Mota Cavalcante

61. Orientando: Cleiton Lira Cunha. Orientador: José Kennedy Martins.
62. José Mir Justino da Costa. Orientador: José Raimundo Gomes Pereira.
63. Lyne Abuim de Vasconcelos Marques. Orientador: José Raimundo Gomes Pereira.
64. Elaine Ladislau Pereira Ferreira. Orientador: Sheila Campos Chagas.
65. Kelvin Souza de Oliveira. Orientador: Sheila Campos Chagas.  
O Centro em Desenvolvimento Consolidado da Bahia titulou 09 Mestres em 2009.
72. Francisca Leidmar Josué Vieira. Orientador: Francisco Júlio Sobreira Araújo Corrêa.
73. Rodrigo Cohen Mota Nemer. Orientador: Marco Aurélio Soares Souto.
74. Carlos David de Carvalho Lobão. Orientador: Sérgio Mota Alves.
75. Maria Joseane Felipe Guedes. Orientador: Aparecido Jesuíno de Souza.
76. Rivaldo do Nascimento Júnior. Orientador: Sérgio Mota Alves.
77. Leomaques Francisco Silva Bernardo. Orientador: Antonio Pereira Brandão Júnior.
78. José Eder Salvador de Vasconcelos. Orientador: Bráulio Maia Júnior.
79. Matheus Brioschi Herkenhoff Vieira. Orientador: Ricardo Soares Leite
80. Pedro Matos da Silva. Orientador: Valmecir A. S. Bayer
81. Stanley Profilo. Orientador: Valmecir A. S. Bayer
82. Paulo Henrique Souza da Costa. Orientador: Magda Xavier  
O Centro em Desenvolvimento Consolidado de Goiás teve 25 dissertações de mestrado em matemática no IME/UFG.
108. Vera Lucia Graciani. **Orientador:** Prof. Martinho da Costa Araújo
109. Paulo Cesar Carmona Tabares. **Orientador:** Prof. Miklós Farkas. **Co-orientador:** Prof. Jocirei Dias Ferreira
110. Rodrigo Castro. **Orientador:** Prof. Jocirei Dias Ferreira  
O Centro em Desenvolvimento Consolidado do Pará teve 17 dissertações de mestrado em 2009.  
O Centro em Desenvolvimento Consolidado do Paraná teve 3 dissertações de mestrado em 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 Costa. Orientadora: Thelma Sáfy
138. André Luiz França Batista. Orientadora: Thelma Sáfy
139. Devanil Jaques de Souza. Orientador: Lucas Monteiro Chaves

### **Mestrado – em andamento**

1. Renato Ghini Bettiol, Mestrado em Matemática, IME—USP, P. Piccione
2. Álvaro Júlio Yucra Hanco (UFSCar, Mestrado, G. Lobos)
3. Marcos Antonucci Ferreira (UFSCar, Mestrado, G. Lobos)
4. Maria Rosilene Barroso dos Santos (Mestrado, UFSCar, R. Tojeiro)
5. Rafael Briquet (Mestrado, USP, M. Alexandrino)
6. (Orientador M. B. Jardim) Patrícia Borges dos Santos (mestrado, bolsa CNPQ) Título do projeto: Variedades de matrizes comutantes
7. (Orientador M. B. Jardim) Marcelo Gonçalves de Martino (mestrado, bolsa FAPESP) Título do projeto: Instantons com simetrias

8. (Orientador M. B. Jardim) Rodrigo Pires dos Santos (mestrado, bolsa CAPES) Título do projeto: A correspondência de Hitchin-Kobayashi
9. (Orientador M. B. Jardim) Fábio Melo (mestrado profissional, sem bolsa) Título do projeto: Teoria de curvas para métricas não-euclidianas
10. (Orientador R. Mosna) Danilo Borim do Nascimento. Mestrado em Matemática, IMECC/UNICAMP. “Fases geométricas, holonomias e teorias de gauge”. Início: março/2008
11. (Orientador R. Mosna) Gustavo Marques Tavares. Mestrado em Física, IFGW/UNICAMP. “Teorias de gauge: aspectos dinâmicos e topológicos”. Início: março/2008.
12. (Orientador A. A. Moura) Fernanda Pereira (Mestrado - Início 03/2008) - Introdução à teoria de representações de álgebras de Kac-Moody
13. (Orientador A. A. Moura) Matheus Batagini Brito (Mestrado – Início 03/2009)
14. (Orientador C. E. Durán) Diego Mano Otero
15. Alan Gerardo Reyes Figueroa (Orientador: Hossein Movasati)
16. Jacqueline Rodrigues Oliveira Orientador: Enrique Ramiro Pujals
17. Philip Thompson Orientador: Marcelo Miranda Viana Da Silva Rafael
18. Montezuma Pinheiro Orientador: Marcelo Miranda Viana Da Silva
19. Riane Aparecida Da Silva Mélo Orientador: Alcides Lins Neto
20. Susana Frometa Fernandez Orientador: Carlos Gustavo Moreira
21. Tiane Marcarini Pinto Orientador: Carlos Gustavo Moreira
22. Rafael Borro Gonzalez, USP (Orientador: A. P. Bergamasco)
23. Moisés Aparecido do Nascimento, UFSCar (Orientador: L.A. Carvalho dos Santos)
24. Aldo Vieira Pinto, UFSCar (Orientador: J. R. dos Santos Filho)
25. Renato Andrielli Laguna, USP (Orientador: S. Zani)
26. Andreza Cristina Beezão, USP (Orientador: S. Zani)
27. Fábio Antonio Araujo de Campos Orientador: Ma To Fu
28. Moreno Pereira Bonutti Orientador: Sergio Henrique Monari Soares
29. Rafael Antônio Rossato Orientador: Eugenio Tommaso Massa
30. Rosemeire Aparecida Rosa Orientador: German Jesus Lozada Cruz
31. André Azevedo Paes de Barros Orientador: German Jesus Lozada Cruz
32. Glauce Barbosa Verão Orientador: German Jesus Lozada Cruz
33. Jucilene de Fátima Pavan Orientador: German Jesus Lozada Cruz
34. Marcelo Dário dos Santos Amaral; Orientador: Eduardo Teixeira
35. João Vítor da Silva; Orientador: Eduardo Teixeira
36. Daniel Hilário da Silva; Orientador: Olimpio Miyagaki
37. Paulo Angelo Resende (orientadora: Catia R. Gonçalves)
38. Simone V. da Silva (orientadora: Catia R. Gonçalves)
39. Renato F. da Cruz (orientador: Ary V. Medino)
40. Andrey B. Guimarães (orientador: Ary V. Medino)
41. Lutemberg Florêncio. (Orientador. F. Cribari Neto; Co-orientador: Raydonal Ospina.
42. Avelino Viana --- Mestrado em Andamento
43. Douglas Rodrigues Pinto --- Mestrado em Anadamento
44. Gabriela Betella Cybis --- Mestrado Concluído em Agosto

A equipe de Topologia e Singularidade orienta atualmente 6 alunos de mestrado.

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

O Centro em Desenvolvimento Consolidado do Piauí tme 3 dissertações de mestrado em andamento.

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 I - UFV
84. Lílian Neves Santa Rosa - UFV
85. Marcos Barros de Paula - UFV
86. Jefferson Gonçalves Figueiras; Orientador: Alexei A. Deriglazov
87. Hernani Martins Junio; Orientadora: Thelma Sáfadi
88. Franciella Marques da Costa; Orientadora: Thelma Sáfadi
89. Alexandre da Silva Adão; Orientador: Lucas Monteiro Chaves
90. Paulo Henrique Salles; Orientador: Lucas Monteiro Chaves

### **Iniciação Científica**

1. Hélio Pereira Jr., UFSCar, (Orientador: R. Kapp),
2. IDavid Evangelista da Silveira Junior, UFSCar, (Orientador: L.A. Carvalho dos Santos)
3. Francisco Caramello, UFSCar, (Orientador: J.R. dos Santos Filho),

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

A equipe de Topologia e Singularidade orienta atualmente 11 alunos de iniciação científica.

O Centro em Desenvolvimento Consolidado de Alagoas tem 25 alunos de Iniciação Científica, com 12 apresentações de trabalhos em eventos.

58. Thalisson Torres de Oliveira Orientadora: Sheila Campos Chagas
59. Carla Almeida Rodrigues Orientador: Nilomar Vieira de Oliveira
60. André Carneiro da Rocha Orientador: Renato de Azevedo Tribuzy
61. João Filipe Bezerra Pereira Orientador: Renato de Azevedo Tribuzy
62. Audemir dos Santos Orientador: Cícero Augusto Mota Cavalcante
63. Ilana Zuila Monteiro Alves Orientador: Cícero Augusto Mota Cavalcante
64. Keyla Monica da Silva Cardoso Orientador: Mário Salvatierra Júnior
65. Daniele dos Santos Alencar Orientador: Roberto Cristóvão Mesquita Silva
66. Paulo Ricardo de Souza Rodrigues Orientadora: Flávia Morgana de Oliveira Jacinto
67. Luiz Henrique Pinheiro Carvalho Orientador: Disney Douglas de Lima Oliveira
68. Raphael Ribeiro Costa Orientador: Ivan de Azevedo tribuzy
69. Diana Dorgam de Aguiar Orientador: Ivan de Azevedo Tribuzy
70. Renato Silva Pereira. Orientador: Ângelo Roncalli Furtado de Holanda
71. Rafael Baptista de Assis. Orientador: Severino Horacio da Silva
72. Rivaldo Bezerra de Aquino Filho. Orientador: Aparecido Jesuíno de Souza
73. Israel Buriti Galvão. Orientador: Francisco Júlio Sobreira de A. Corrêa
74. João Paulo Formiga de Menezes. Orientador: Jose de Arimateia Fernandes
75. Bruno Vinicius de Menezes Barros. Orientador: Luiz Antônio da Silva Medeiros
76. Eraldo Almeida Lima Júnior. Orientador: Marco Aurélio Soares Souto
77. Bruno Fontes de Sousa. Orientador: Vanio Fragoso de Melo
78. Bruno Sérgio Vasconcelos de Araújo. Orientadora: Rosana Marques da Silva
79. Damares Pereira Monteiro. Orientador: Francisco Antonio de Moraes
80. Maria de Sousa Leite Filha. Orientador: Francisco Antonio de Moraes

81. Milton de Oliveira Assunção Junior. Orientador: Prof. Geraldo Lucio Diniz
82. Luis Fernando Grotti. Orientador: Prof. Ronie Peterson Dario
83. Rafael Augusto Alves Campos. Orientador: Prof. Ronie Peterson Dario
84. Rodrigo Gonçalves Trevisan. Orientador: Prof. Lee Yun Sheng
85. Dalvalice da Silva Cantanhede. Orientador: Prof. Maxwell Barros
86. Ermerson Rocha Araújo. Orientador: Prof. Nivaldo Muniz
87. Oliver Kolossoski Orientador : Luiz Carlos Matioli
88. Lilian Cordeiro Brambila Orientador: Alexandre Kirilov
89. Maikel Antônio Samuays Orientador : Alexandre Kirilov
90. Luana Fonseca Duarte Orientador : Eduardo Hoefel
91. Andre Luis Onorio Orientador :Liliana Gramani Cumin
92. Hevans Vinicius Pereira Orientador : Ailin Ruiz de Zarate
93. Janaina Schoeffel Orientador : Ailin Ruiz de Zarate
94. Daniel Messias Linck Orientador : Marcelo Muniz
95. Joacir Lucas de Oliveira Orientador :Marcelo Muniz
96. Thais Mayumi Batista Makuta Orientador :Marcelo Muniz
97. Rafael Castro Orientador : Marcelo Muniz
98. Clauciane Dias de Lima Orientador : Marcelo Muniz
99. Ricardo Forbeck Orientador : Marcelo Muniz
100. Priscila Savulski Ferreira Orientador: Elizabeth Karas
101. Karla Cristina Arsie Orientador: Elizabeth Karas
102. Jeferson Diniz Iniesta Orientador : Elizabeth Karas
103. Aline Cristina da Rocha Orientador: Yuan Jin Yun
104. Izabela Patrício Orientador : Yuan Jin Yun
105. Dalvana Tiburcio Orientador : Yuan Jin Yun
106. Moriah Fardo Orientador : Yuan Jin Yun
107. Tais Camila da Silva Moraes Orientador : Yuan Jin Yun (orientador)
108. Antônio Kelson Vieira da Silva, (UFPI)
109. Ítalo Dowell Lira Melo (UFPI)
110. Michele Ribeiro Fidelis, Orientador: Sonia M. Fernandes, UFV
111. Jailton Viana da Conceição, Orientador: Olimpio Hiroshi Miyagaki, UFV
112. Mateus Balbino Guimaraes, Orientador: Olimpio Hiroshi Miyagaki, UFV
113. Isaque Visa da Silva, Orientadora: Catarina Mendes de Jesus, UFV
114. Jéferson Rômulo Pereira, Orientadora: Catarina Mendes de Jesus, UFV
115. Victor do Nascimento Martins, UFV
116. Michely Santos Oliveira, UFV
117. Wanderley Nunes do Nascimento, UFV
118. Thiago Neves Mendonça, UFV
119. Isaque Visa da Silva, UFV
120. Jéferson Rômulo Pereira, UFV
121. Jailton Viana da Conceição, UFV
122. Plínio Oliveira Santana, UFV
123. Nilson Felipe Matos Mendes, UFV
124. Adelino Gussoni dos Santos, UFU
125. Kuang Hongy, UFU
126. Letícia Garcia Polac, UFU
127. Alexandre Chapiro, UFJF
128. Monalisa Reis, UFJF
129. André Desidéreo Maldonado, UFJF
130. Samuel Oliveira de Almeida; UFJF
131. Vanessa Aparecida Freire; UFLA

132. Maisa Kely de Melo; UFLA
133. Thiago Júnior Furtado Garcia; UFLA
134. Rafael Correia Fonseca; UFLA
135. Junior Assis Barreto Bernardes; UFLA
136. Ildalio Aguiar; UFMS
137. Claudia Steffany da Silva Miranda; UFMS
138. Ildalio Aguiar; Orientadora.: Rúbia Mara de Oliveira Santos
139. Claudia Steffany da Silva Miranda; Orientadora: Rúbia Mara de Oliveira Santos

O Centro em Desenvolvimento Consolidado do Pará tem 6 alunos de iniciação científica.

Também: **Orientação de Alunos do Ensino Médio e Fundamental:**

Maria de Nazaré Carvalho Bezerra (orientadora de estágio de 5 alunos da OBMEP)

Augusto César dos Reis Costa (orientador de estágio de 5 alunos da OBMEP)

O Centro em Desenvolvimento Consolidado do Espírito Santos tem 4 bolsista de iniciação científica PIBIC/CNPq/ UFES; 17 bolsistas PICME – OBMEP/CNPq/CAPES; 12 bolsistas PET SESU/MEC; 42 bolsistas e 28 voluntários de iniciação científica junior do CNPq da OBMEP.

O Centro em Desenvolvimento Consolidado de Goiás (IME/UFG) atua na orientação dos seguintes programas de formação discente (nível de graduação):

- PIBIC/ CNPq-UFG – 7 bolsas
- PICME – 30 bolsas (projeto OBEMEP)
- Prolicen – 2 bolsas
- PIBID – 4 bolsas
- PET – 12 bolsas
- Iniciação Científica/Balcão do CNPq – 2 bolsas
- INCT – 3 bolsas
- REUNI – 2 bolsas

### **Eventos nacionais e internacionais:**

Em 2009 o INCTMat promoveu uma série de eventos como Conferências, Simpósios, Workshops e Escolas sobre temas específicos de pesquisa e vários eventos de natureza global envolvendo grupos de pesquisas de todos os temas relacionados no Projeto, como e principalmente foi o caso do Colóquio Brasileiro de Matemática. Foram promovidas também Escolas com cursos tutoriais avançadas e ou introdutórios, envolvendo um grande número de alunos de pós-graduação e graduação. Em anexo encontra-se a lista completa destes eventos e os sites correspondentes onde podem ser encontrados os temas e atividades principais, como plaestra e cursos.

Observamos que pelo Projeto aprovado, o INCTMat so promove eventos no Brasil e apóia eventos de natureza tutorial avançados e introdutórios no âmbito da América Latina. A participação de nossos pesquisadores em eventos internacionais é financiada por outras das diversas fontes atualmente existentes no Brasil.

A lista de eventos promovidas pelo INCTMat encontra-se no Anexo 1.

## **Intercâmbio de pesquisadores nacionais e estrangeiros**

Neste primeiro ano, as atividades do INCTMat iniciaram-se efetivamente em março de 2009.

Houve ênfase no intercâmbio promovido pelos Centros em Desenvolvimento, que dispõe de verba própria do INCTMat para este fim como estímulo a seu avanço científico, como pode ser visto pela lista no anexo 2. Cabe observar que o intercâmbio será mais intenso nos próximos dois anos.

Vide ANEXO 2

## **Atividades de formação e capacitação de recursos humanos**

O INCTMat contribuiu de forma expressiva, através de seu programa de eventos e intercâmbio científico, para a titulação de 133 doutores e 396 mestres em 2009 na área global de matemática, incluindo probabilidade e estatística, segundo dados fornecidos pela CAPES. Isto implica em um aumento de 17 doutores em relação a 2008, o que corresponde ao pleno cumprimento relativo a um ano da meta do INCTMat de contribuir para que em 3 anos se atinja a titulação de 170/180 doutores. De fato, se mantida a taxa de crescimento de 13,7% de 2008 para 2009 no número de doutores titulados, em três anos superaremos o valor anual estipulado no projeto.

A lista apresentada acima com número de doutores e mestres titulados, é expressiva mas incompleta, em particular porque os dados foram obtidos antes da consolidação dos resultados agora apresentados pela CAPES.

## **Perspectivas e futuros desdobramentos.**

O avanço global e integrado da matemática brasileira, como apontam os indicadores de produção científica quantitativos e qualitativos, presente em centros matemáticos localizados em todas as regiões do país, o crescimento da formação de novos pesquisadores-doutores, a busca de novos talentos e a melhoria do ensino de matemática, têm no INCTMat um instrumento fundamental amplamente reconhecido por nossa comunidade matemática. Assim, a perspectiva de cumprimento das metas é muito boa. Ao mesmo tempo, novas iniciativas têm sido construídas com amplo apoio do INCTMat, como os Colóquios Regionais, ampliação de Escolas de Matemática envolvendo pesquisadores de alto nível, em diferentes Regiões do Brasil e outros países da América Latina. Outras iniciativas estão sendo consideradas pelo Comitê Gestor do INCTMat.