# ICTP International Centre for Theoretical Physics SAIFR South American Institute for Fundamental Research



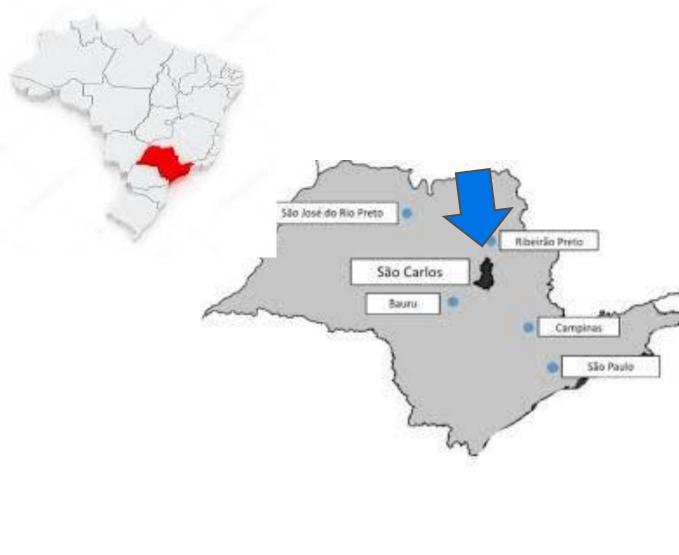
## MY JOURNEY, ADVOCACY WORK TO IMPROVE BRAZILIAN SCIENTITS DIVERSITY.

PROFA. DRA. SONIA GUIMARÃES





# MY JOURNEY



## **Graduated in Physics**







## **A RACIST DEFINING MY FUTURE...**

## **UNDER GRADUATION SCHOLARSHIP**



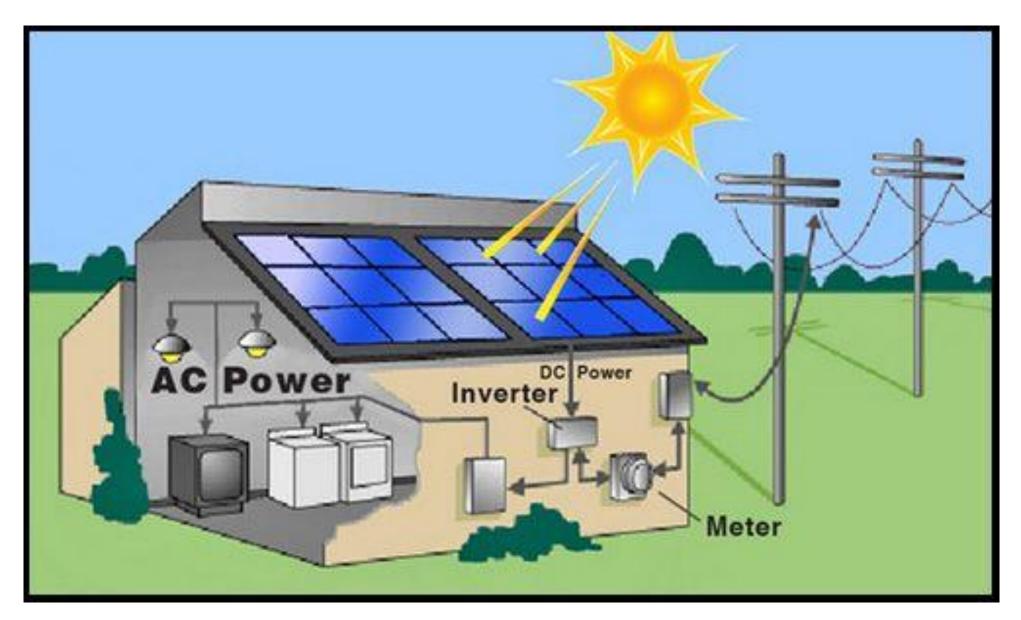


#### International Centre for Theoretical Physics South American Institute for Fundamental Research

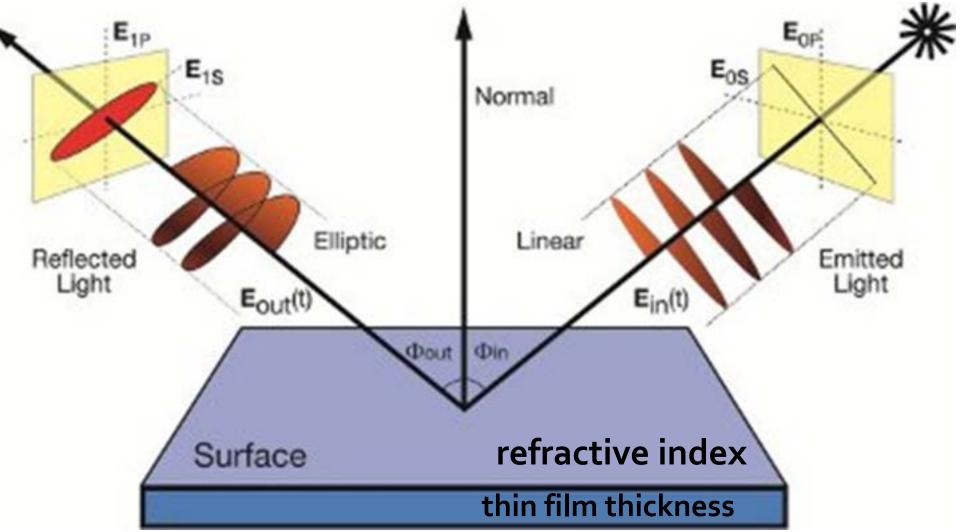
Master Degree in Applied Physics, at Physics Institute of São Paulo University – USP in Portuguese, still in São Carlos.



## When I've worked with SOLAR CELL.



## I've mounted an ELIPSOMETER



**Refractive index** of a material is a dimensionless number that describes how fast light travels through the material. It is defined as *n=c/v*. where c is the speed of light in vacuum and v is the phase velocity of light in the medium.





## **ANOTHER RACIST EVALUATING ME**

### **MY SUPERVISOR GAVE THE WORST EVALUATION**

# THEN I WENT TO WORK IN ITALY.









National Research Council



**Sandro Solmi** 



Institute of Chemistry and **Technology of Materials and Components for Electronics -**LAMEL



# Consiglio Nazionale

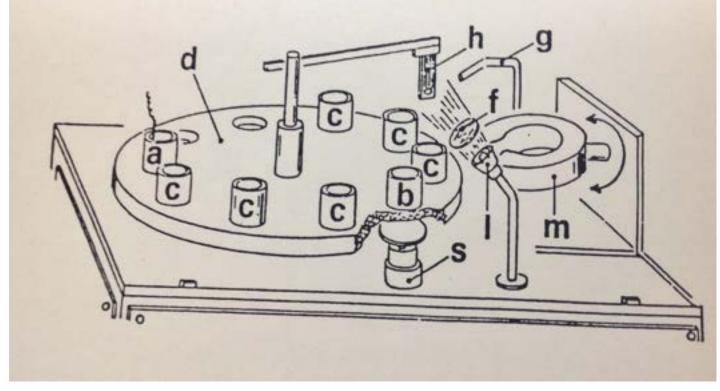




#### **Researcher - Doutorezza**

#### Boron Ion Implantation to obtain Shallow Junctions in Micro Electronics Devices

I've worked with MAZINGA or computer-controlled mechanical device for electrochemical stripping of oxides for electrical profile measurements.



- (a) electrolytic cell for anodizing, for oxide formation;
- (b) HF solution to remove this oxide;
- (c) deionized water;
- (d) infrared radiation filter to prevent overheating;
- (e) nitrogen blower for drying;
- (f) halogen lamp used during
  - anodizing, ensuring the thickness of the oxide hanging from the substrate;
- (g) magnet for effect measurements Hall that defines the thickness of the oxide to be removed.

## University of Manchester Institute of Science and Technology UMIST - England.

## **Department of Electrical Engineering & Electronics**





## PhD in MANCHESTER - ENGLAND



#### **Toni Peaker**





## Semiconductor

# Quality characterization of boron implanted layers in silicon.





# It made me the FIRST BLACK WOMAN to obtain a PhD in PHYSICS in BRAZIL.

Black Women of Brazil



Category Archives: Sonia Guimarães

Quer ser uma Gata?

What is Black Women of Brazil? Sonia Guimarães: first

Sonia Guimarães: first black Brazilian woman with a Ph.D in Physics Add d d d Rate This

Being cheerful and goodnatured, and thus perhaps deflating the stereotype of the grim and grumpy scientist, Sônia Guimarães overcame many obstacles to become the first black woman to hold a ...

Continue reading → JANUARY 30, 2012 LEAVE A COMMENT



Sonia Guimarães: first black Brazilian woman with a Ph.D in Physics

Sônia Guimarães Being cheerful and goodnatured, and thus perhaps deflating the stereotype of the grim and grumpy scientist, Sônia Guimarães overcame many obstacles to become the first black woman to ...



January 30<sup>th</sup> 2012





### Conselho Nacional de Desenvolvimento Científico e Tecnológico



## Researcher Senior at de Analysis and Characterization of Electronics Microestructures Laboratory– LACAM in Portuguese





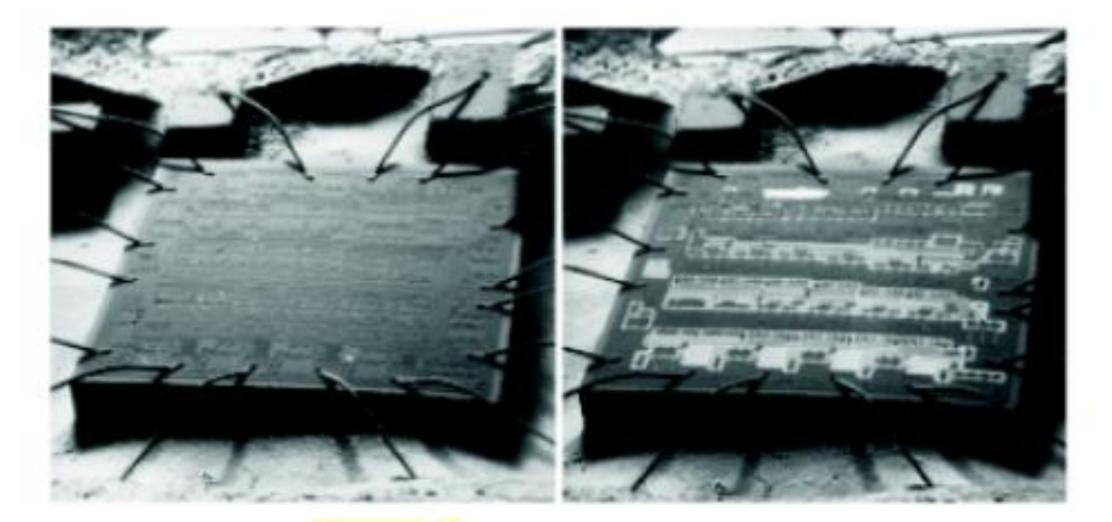
### **Technology and Information Centre Renato Archer**







# ELETRONIC SCANNER MICROSCOPY with VOLTAGE CONTRAST







#### 2023 my name is considered to be the Director of the Center.

# ANOTHER RACIST PP do NTING ME TO TRAVEL BECAUSE I HAL 30 JEEN TO EUROPE TOO MUCH

### **Associated Professor I**

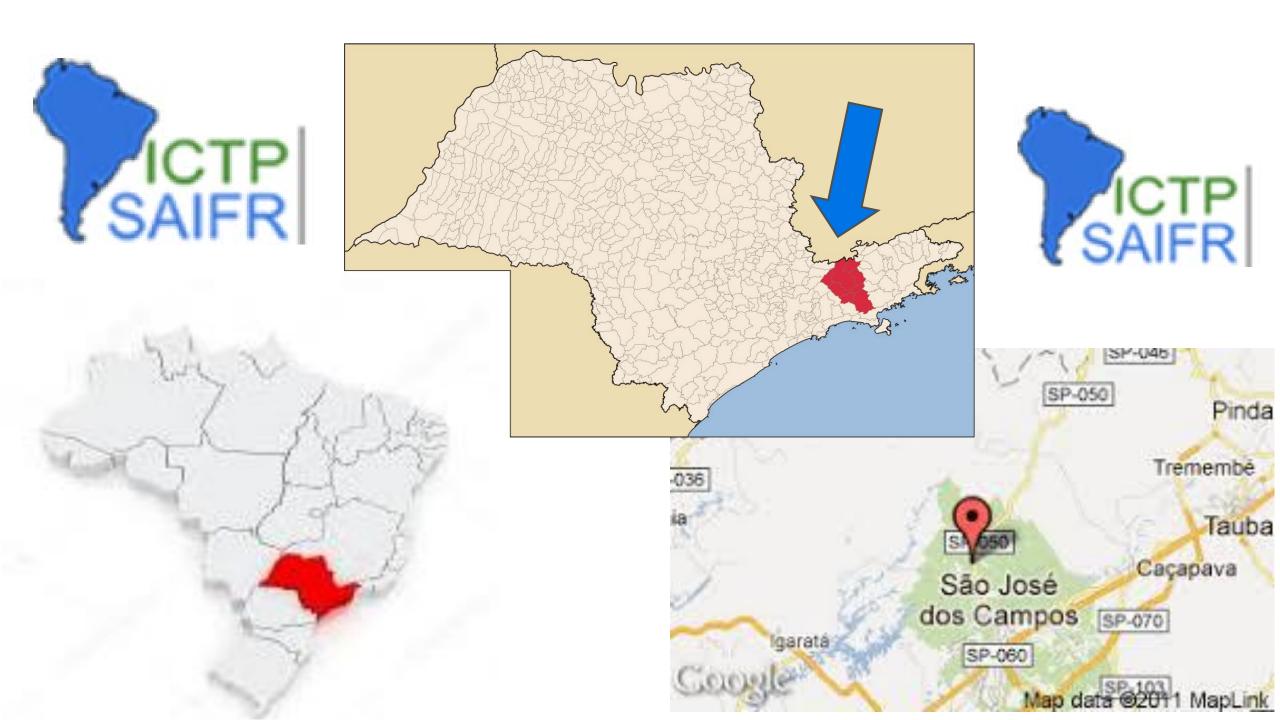
### Fundamental Physics Department of the Technological Aeronautics Institute – ITA in *Portuguese*

**General Command of Aeroespacial Technology Department** 

DCTA – in Portuguese.





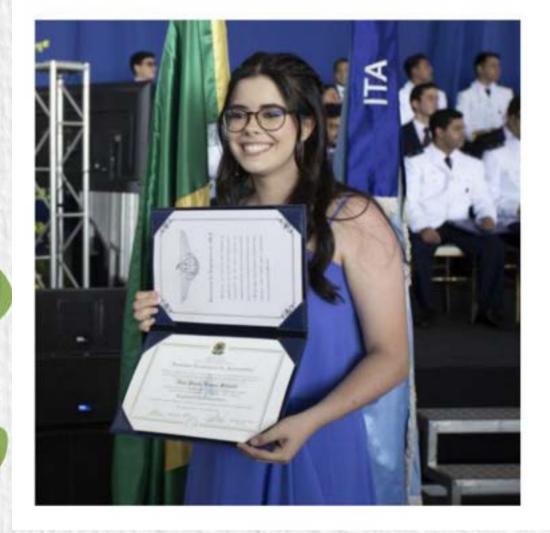












#### **Honorable Mention**

The best student in 2022, never got lower grades than 9,5 in 10 in 5 years engeneering graduation. registraram as maiores notas. A engenheira Ana Paula Lopes Schuch, que obteve a maior média na turma de 2022 do ITA recebeu a Láurea Summa Cum Laude, que é outorgada aos engenheiros que obtiveram média geral Louvor (L), isto é, média geral igual ou superior a 9,5 na escala de zero a dez. Apenas 37 alunos obtiveram semelhante desempenho na história do ITA.

72 years

#### VALE DO PARAÍBA E REGIÃO

Por Léo Nicolini, g1 Vale do Paraíba e Região

16/12/2022 16h28 · Atualizado há uma semana



**g**1

## Student 20 years old passes 1st. Place at ITA

**Luciana de Oliveira Santos** conquistou o primeiro lugar entre os candidatos que optaram pela carreira militar. Para ela, a conquista é mais do que uma realização pessoal.

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SAIFR

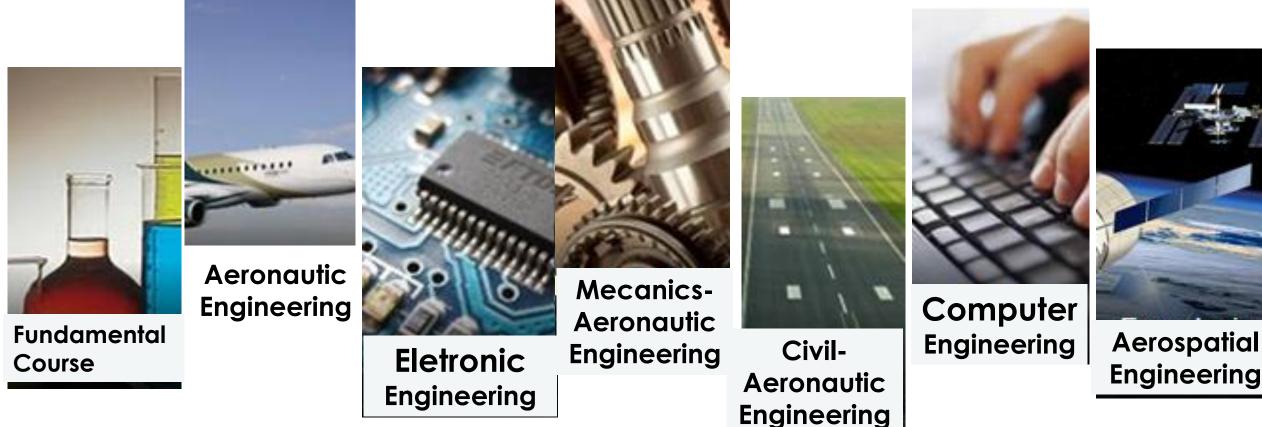
Heloísa Helena Rossato 2023 - more Dias -Debby than 9000 **candidates** for 150 vacancies.

/ICTP SAIFR

2023

# In the first 2 years





Physics, chemistry, mathematics, introduction to computer science and human science.

## Stanford University is a private institution founded in 1885. 3rd. of the Best Universities in the United States.



PUBLICADO EM OUTUBRO/2023





## **ANOTHER RACIST, SEXIST EXPELLED ME**

BECAUSE I AM THE WORST TEACHER OF THE INSTITUTE, I DO NOT KNOW PHYSICS, AND MY CLOTHE CALLS TOO MUCH ATTENTION TO MY BODY.

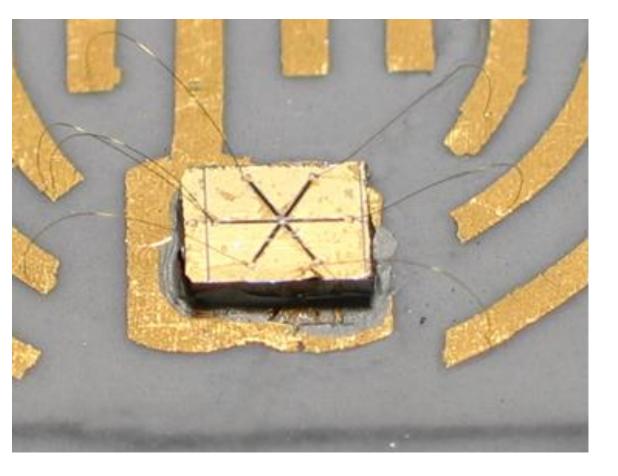
### Project Manager of Infrared Sensors - SINFRA in Portuguese



#### Materials Division – AMR in Portuguese of the Institute of Aeronautics and Space – IAE in Portuguese



# Producing Infrared Sensors





## **Detectors of Infrared Radiation**



#### Temperature of the plane engine 600K.



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#### DEPÓSITO DE PEDIDO DE PATENTE

Sr. Usuário,

Este é um email automático e não é necessário responder a esta mensagem.

Você acaba de apresentar um pedido de patente ao Instituto Nacional da Propriedade Industrial.

Lembramos da necessidade de a partir da data de hoje, acompanhar o seu pedido. Para isso, utilize a numeração do pedido encaminhada nesta mensagem.

Esse acompanhamento deverá ser efetuado da seguinte forma:

Consulte semanalmente, pelo número do processo, a Revista Eletrônica da Propriedade Industrial - RPI (Edição Patentes - disponível em formato .pdf no portal (<u>www.inpi.gov.br</u>), na qual serão publicados todos os atos relativos ao seu pedido de patente.

Em alguns casos excepcionais (remessas por Via Postal ou por Postos Avançados do INPI), poderão existir exigências formais para o seu pedido (com prazo de 30 (trinta) dias para o cumprimento) sem que a via com número de processo chegue até você. Nestes casos, utilize a numeração encaminhada nesta mensagem para acompanhar o andamento do processo. Esta mensagem de notificação é encaminhada no momento em que o pedido for protocolado em uma de nossas recepções.

Ratificamos a importância do acompanhamento semanal de seu pedido, visto que o mesmo pode ser alvo de uma exigência formal, que deverá ser cumprida em 30 (trinta) dias a partir da publicação na RPI, sob pena de anulação do número do pedido. Protocolo 018140013854 na Unidade DIREG SP, em 24/07/2014 11:55:38.

Anote o Número do seu Processo BR 10 2014 018197 0

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Consulta à Base de Dados do INPI						
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» Consultar por: Base Patentes   Finalizar Sessão 1/1						
Patente						
(11) Nº do Pedido: BR 10 2014 018197 0 B1						
(22) Data do Depósito: 24/07/2014						
(43) Data da Publicação: 19/12/2017						
(47) Data da Concessão: 08/12/2020						
(51) Classificação IPC: H01L 21/203 ; C30B 31/20						
<ul> <li>SISTEMA PARA DOPAGEM POR DIFUSÃO DE CAMADAS SEMICONDUTORAS NA SUPERFÍCIE DE LÂMINAS</li> <li>(54) Título: SEMICONDUTORAS FLUTUANTES A PARTIR DA VOLATILIZAÇÃO AUTORREGULADA DE COMPONENTES SEMICONDUTORES DA FONTE DE DOPAGEM</li> <li>"Sistema para dopagem por difusão de camadas semi condutoras na superfície de lâminas semicondutoras flutuantes a partir da volatilização autorregulada de componentes semicondutores da fonte de dopagem" se refere a um sistema para dopagern baseado em difusão para obtenção de camadas semicondutoras, dopadas positivamente ( p) ou negativamente ( N) , sobre lâminas semicondutoras flutuantes a partir da volatilização trata do processo de funcionamento do dito sistema. O principal diferencial da invenção é o fato da lâmina semi condutora flutuar, durante o processo de funcionamento do sistema, evitando assim pontos de contato e inserção de defeitos estruturaís. Urna outra característica relevante é a do sistema propiciar urna ampla flexibilidade em efetivamente controlar e realizar variações de todos os parâmetros envolvidos no processo, principalmente o controle da</li> </ul>						
	espessura da camada p ou N difundida, por ma lâmina sernicondutora flutuante, que depende do Titular: INSTITUTO DE AFRONÁUTICA E ESPAÇO - IA	somente da dimensão	-			nsäo da

(72) Nome do Inventor: SONIA GUIMARÃES

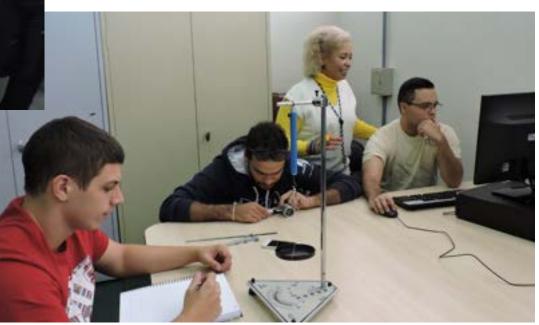
## I am back teaching at ITA.











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# My publications and participation in congresses during this expulsion were only valid for one professional promotion...

# I HAVE STUDENTS RACIST SEXISTS MY COLLEAGUES ARE RACIST SEXISTS



WELL THEN CAME afrobras

CELEBRITY

FAPESP CTP unesp







I am the counsel founder of afrobras – a nongovernmental initiative, which created Zumbi dos Palmares University, the first Historically Black Brazilian University – UNIPALMARES.,

And the second second





60 days before 120 aniversary of the slavery abolition it was the 1st graduation day of Zumbi dos Palmares University with 126 graduating students, 89% back.





### BLACK RACE TROPHY

Brasil 500 years old



Inclusão e Empoderamento Afroétnico



### ANCHORS OF BRAZILIAN JOURNALISM Joyce Ribeiro Maju TV GLOBO TV CULTURA





# **Milton Nascimento**





### Margareth Menezes da Purificação Costa Minister of Culture of Brazil



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## **Reverend Jesse Jackson**

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Wole Soyinka, first black man to win the Nobel Prize in Literature, 1986



### 6 Historically Black American University Deans

# ICTP International Centre for Theoretical Physics SAIFR South American Institute for Fundamental Research



# MY ADVOCACY WORKING TO IMPROVE BRAZILIAN SCIENTITS DIVERSITY.





### woman moment forum









#### ismart.oficial

#### 11<sup>th</sup> Convention of Ismart Families and Students in SP

Evento realizado no dia 13 de maio de 2017, no Expo Center Norte, em São Paulo, com o tema Vai Lá e Faz.









ismart.oficial

#### 11<sup>th</sup> Convention of Ismart Students and Families in RJ

Evento realizado no dia 3 de junho de 2017, no Centro de Convenções Bolsa do Rio, com o tema: Vai lá e faz.

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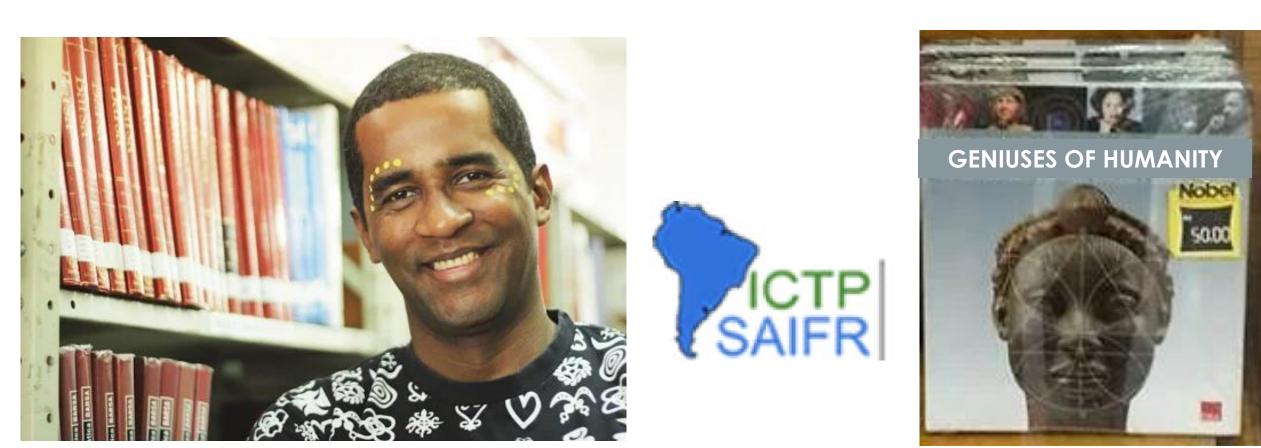






# I`ve been mentioned in books, newspapers, magazine, calendar...

# Carlos Machado mentioned me in his book



# Here I am in Carlos' book...



#### SÔNIA GUIMARÃES

Alogre e herrs berrants alla inche labora conting a carsi story show Dissectively or course goatter beging of Aprella r, a Fible a Intastilety a Similar Cumuries for a primeira pressua africalescendennes quit be

elaterias (duração plena) pela Carlos, em surgi o mestrado em Fining e Quinnica de São Carlos Henry, even stad 3; e di uboustere autoness pable. Il perefenance adjurnia no Departaments de Cidra a

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Initia Implatorya v Estadoys Unidors.

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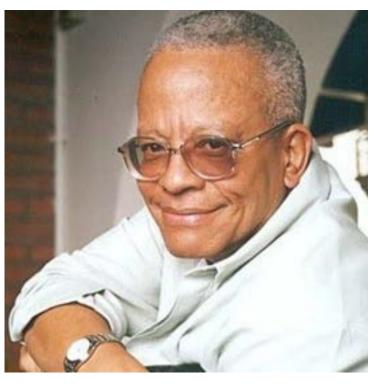
Esture no suivismu negro dride s graduation beingen abait im campdo envino e da educação, poo mieana has politica. Alere da Argonata - que é a entidade criadera a

Universidade Zurein dos Palemaras - sten unhentaria da moi listegra São hosé des Campros a dos suls de implés para una turmolta, Sonmembro da Associação Brasileira de Propasadores Negros, a aare.

# Nei Lopes did the same...



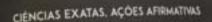




## SHINY AFRO BRAZIL

100

REMARKABLE PERSONALITIES OF THE 20<sup>th</sup> CENTURY



Em 1996, duas mulheres marricularam-se en una da universidades mais exclusivas do Brasil. Estavam "facendo histora", pos rum u primeiras mulheres a estudar no Instituto Tecniógende Aessainta, citado em 1950, em São José dos Campos. São Pado, Enar os unas mulheres alumas, mas havia uma professora, ingresada na estructur marcadamente masculina, três anos anas. E era una mulher urga.

Sonia Guimarães nasceu em 26 de jusho de 1857 en lincos, ch dade paulista conhecida pelo turismo de aventura. Filia de um vajeceiro e uma coenerciante, recebeu toda a instrució fundamental em escola pública, estando sempre entre os melhores da turna. Lenbra ela que, no curso primário, certa vez, havia uma vaja para o tereo da ela que, no curso primário, certa vez, havia uma vaja para o tereo da



Loja Kindle > eBooks Kindle > Biografias e Histórias Reais



O que sabemos sobre o racismo que atinge milhões de mulheres negras no Brasil?

Como vivem, o que passam, o que sentem, o que pensam, quais são suas conquistas, como reagem e resistem, que estratégias usam para se proteger diariamente?

Dariene Dalto

#### MULHERES NEGRAS IMPORTAM eBook Kindle

por DARLENE DALTO (Autor)

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Escrevendo entendi que o racismo é a mais importante e urgente entre todas as nossas questões sociais. *MNI* é uma tentativa de reflexão e debate a partir do registro da vida e das opiniões de mulheres negras comuns, protagonistas e heroínas, é uma contribuição para um debate profundo sobre o racismo. Não tenho dúvida: o Brasil só se tornará um país maior e melhor para todos nós e os nossos se e quando encarar de frente o racismo e se tornar mais justo para a população preta.

Escrevendo sobre essas mulheres, corajosas, generosas, aprendi uma vida. *MNI* é uma homenagem e uma celebração à sua resistência, à sua resiliência. E a todas as mulheres que descendem da África, que construíram e constroem ainda hoje esse país.







Revista Raça - A morte do americano George Floyd, em... A morte do americano George Floyd, m.facebook.com

https://m.facebook.com/story.php? story\_fbid=502778651848733&id= 100063498073828&sfnsn=wiwsp

wa

17:56

# MAGAZINES

Meshen - Ann I o' I theil de 2010

#### Zaça Negra 500

#### TRAJECTORY OF UNIQUE WOMEN

negros grandro lutadores, hereito.

paritores, imbors cuistan mindra

"Jd Armer Santos inimigues he note or surgerer adar more drower, continuerymen sends organale cleane."

Esta frase nån é de quakpier pestota. E de arria negeta riata: Sontia Guinurles, Doutors en Fisico de Modria Condeniada Semicondatores pela The University of Manchester Institute of Science and Technology. Inglaterra, Mearre ent Plaica Aplicada pelo Instituto de Física e Outrai-

ra de São Carlos. Universidade de Site Paulo e Licenciada em Ciênciat Fosica Doração Plana pelo Departumento de Fínica da Universida-In Folent de São Cartos.

rargo de Gerente Adjunto no Proje- ans dos outros e aidto de Senseres no lutrovertuellue SINFRA, na Divisão de Materiais do bestituto de Aerondutica e Espaço IAE, do Contro Themes Activityparial CTA, are São José dos Campos. Detalla: Unica Malhier a Nepris a occupier coste posito. Albás, timica negra em praticamente todo o CTA. Con Mestrado e Domorado no

Busil e no exterior, falando fluenenterine legills, ttaliane e expunhed, Scotia Contrastles observa que a par-Scipação dos negros tessões 500 amos de Brasil foi screpte divalgada come fe segunda classic escravidán, sorriços que tringuilte mais querta faret. Quando houve alguns negro que te tollweistanz, itali artoli, por elsent-

in negros, que devertamos caben. "O tinter here's regroupe senable hoje é Zomhi, mas até bem pasapalisticas lemps ele era menciostudo na hutoria como um terroriata, ladride, mountaine, Mesoner mere tempos de hoje, fina dos importes, a pa o popel principal", resultatrue erm trucks dropp

Seminoo Semia, o urro do negro for also security tild are adult. the common section on pro-"Mai sociathego sparmake for feine para spec-Ataulmente Sonia ocepa o nós tiréssemns édin.

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Ense é o tipo de atitude que só vem comprovar o ódio que mits negro sende pelo outro, e a vergindha què cle tenti por ser targes." No acerto da negro Senia tet-

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## ESTRELAS ALÉM DO TEMPO

¢ DATITED KOLCININAL



### $\equiv$ EL PAÍS

### CIÊNCIA

### Who are the black Brazilian scientists?

As mulheres negras que realizam pesquisas voltadas para ciências exatas são pouco mais de 5.000



#### BEATRIZ SANZ

São Paulo - 28 FEV 2017 - 20:50 CET



Sonia Guimarães no ITA. ROOSEVELT CÁSSIO

Anna Maria Canavarro Benite,

> Katemari Rosa

**Denise Fungaro** 



# **JOSELI MARIA SILVA SANTOS**

Biological scientist in her post graduation in Science Divulgation and Popularization at Oswaldo Cruz House - Fiocruz, criated,



International Centre for Theoretical Physics
 South American Institute for Fundamental Research

# Here I am in a Calendar





June

2020



Ministeirio da Sadde FIOCRUZ Fundação Granado Cruz

CURSO DE ESPECIALIZAÇÃO EM DIVULGAÇÃO E POPULARIZAÇÃO DA CIÊNCIA / COC

#### **Black Female Scientists**

Scientist Dissemination Calendar

Joselí Maria Silva dos Santos

sob orientação de Hilda da Silva Gomes



Tenia Gainardei (Binas, at de parle de 1927) e una física lesañera, prétisera de Jossien Terreligio de Arministica (TEA), premire malter suya brasileus docume en Hisa e principa malter suya brasileus a lectour no TEA, tende agresade en 1935, quande a documento aracta ná acrismo maltere como randomis.

este6: Inauguração da Memorial Zumbi dos Palmares em Volta Redonda, RJ (1930).
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21/46: Dia de Luta por uma Educação não Sexistá e não Discriminatória instituído pelo Rede de Educação Popular Entre Mulheres da América Latina e da Coribe (REPEM) (1991)

26/06: Nascimento de Sonia Guimordes, primeira mulher negra brasileira doutora em Física e primeira mulher negra brasileira a lecionar no /DA.

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### **BLACK COLLECTIVE**

# Coletivo Negro



### Sonia Guimarães







INSTITUTO DE ASTRONOMIA, GEOFÍSICA E CIÊNCIAS ATMOSFÉRICAS Institute of Astronomy, Geophysics and Atmospheric Science

LETIVO NEG.

Coletivo Negro Sonia Guimarães -Física/IAG

@coletivonegrosoniaguim araes

**Physics Institute** 

## Physics Academic Center - CAF Chapa Sônia Guimarães - CAF Unicamp @SoniaGuimaraesCAF









# TELEVISION



# ICTPInternational Centre for Theoretical PhysicsSAIFRSouth American Institute for Fundamental Research





# Three Brazilians overcome racism and stand out in justice, science and universities









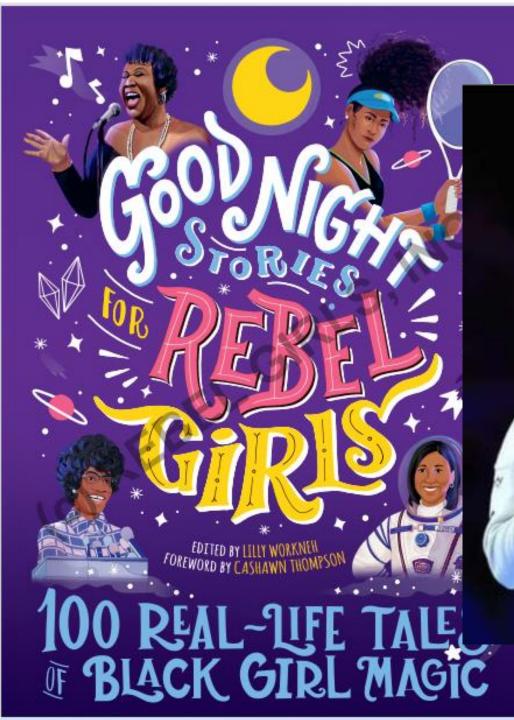
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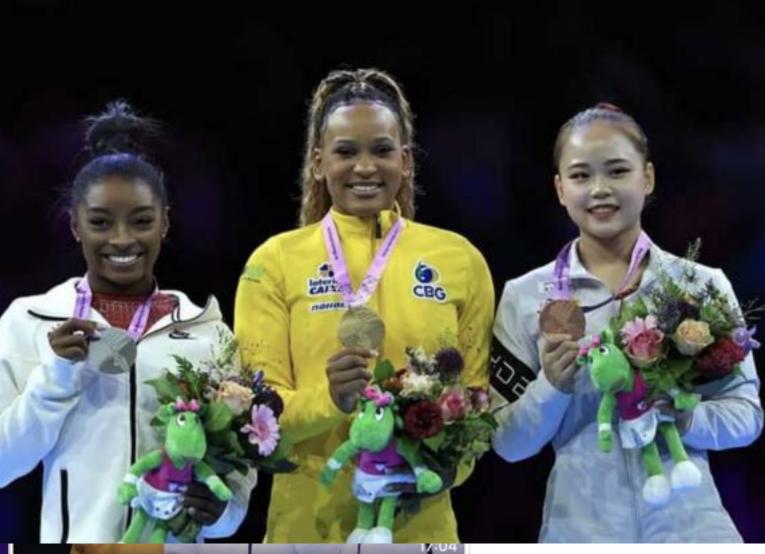


# AMERICAN BOOKS









Rebeca Andrade, Simone Biles e Shilese Jones



#### **SELMA**

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#### Insecure.

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Beaus was born into a tog family. Her mother, an African American mail, and her father, a Black Native American etworcegeer, released IS children. Beaus apent most of her childhood halping her mother pick cotter, and work toundry to make money Beaus couldn't affect college, so the moved to Chicago to live with her teroffeer. There, the studied to become a beautician and sorteal at



#### MC SOFFIA

RAPPER

offia never wanted to be a princess. She always dreamed of being a hero instead. Her skin was black. Her hair was colly. And her greatest power was her voice. With it, she sent a very important message: may Black girls love and accept themselves and each other. When Soffia was just five years old, her classmates began bullying her because of her dark skin. One of them told her she was so dark because she'd fallen into a can of paint as a baby. Those words hurt. "I want to be white," Soffia told her mother.

Kamilah, her mom, was outraged. She thought being Black was beautiful and powerful. There was absolutely nothing wrong with her dark skin. So Kamilah began teaching Soffia to celebrate her heritage.

REFUSED TO TAKE

NO FOR AN ANEWER!

**BESSIE COLEMAN** 

ILLUSTRATION BY

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anina Protinha," which aar old Soffia cang: It famous female coremony of the ethabe held the cold y. She stepped onto the confidence and power.

#### KAMALA HARRIS

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#### SONIA GUIMARÃES

PHYSICS PROFESSOR

nce upon a time, there was a girl called Sonia who looked for the answers to any problem she saw.

Sonia was great at math and thought she wanted to be an engineer. She was the first person in her family to go to college, and there she found a new love: **physics**. So she switched course and found herself as one of only five women in a physics class with 50 men.

She had no problem mastering the work, but she found that other people made assumptions about her based on her skin color and her gender. A teacher once told her that women did not need physics in life so she should not bother trying to get a scholarship. Sonia applied for the scholarship anyway.

When Sonia graduated from her PhD program in England, she became the first Black Brazilian doctor of physics. She returned to Brazil and joined the country's main technological institute as their first Black professor. At the time, the school did not even accept female students.

Many members of the faculty were cruel to Sonia. They complained about the way she dressed and called her a bad teacher. No one came to her defense. She was transferred to another school. Later, when the person responsible for her transfer retired, Sonia returned to the institute and got his job!

Sonia has published her groundbreaking research in international scientific journals. She supports other women who work in the sciences. And she still searches for solutions to any problem she sees.

BORN JUNE 20, 1956

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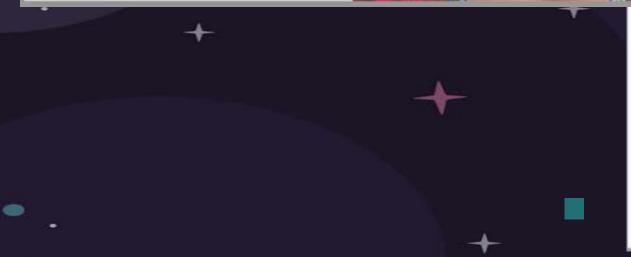
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SOBIA COIMARATS







#### BONIA DUIMARÁES

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# TROPHY AND MEDAL

#### Sobre a Láurea

Education Warrior DA Trophy – Rui Mesquita

**Professor Emeritus Award** 

Integration Center ADO PARA MARCAR O DIA DO SOR, O PRÉMIO É CONCEDIDO ANUALMENTE, DESDE 1997, A PERSONALIDADES QUE CONTRIBUÍRAM PARA O APRIMORAMENTO DA EDUCAÇÃO BRASILEIRA

**Enterprise - School** 

**O ESTADO DE S. PAULO** 

OF TRAMMOND AND BARR AND MAD

A premiação, realizada em parceria com o jornal Estada de S. Paula, foi criada como forma de reconhecimento e agradecimento a todos aqueles que agem pelo aprimoramento da educação brasileira, A láurea é concedida há mais de 20 anos e está em sua 25° edição, já condecorou nomes como Ruth Cardoso, Antônio Delfim Netto e Fernando Henrique Cardoso. Em 2019, o ganhador do prêmio foi Professor Paulo Nathanael Pereira de Souza, reitor de diversas universidades privadas,

acadêmicas e corporativas, Integrou o Conselho Estadual de Educação, bem como o Federal, do qual chegou a ser Presidente.

Raul Cutait 2020

Sonia Guimarães 2021

O Centro de Integração Empresa-Escola - CIEE e o Jornal O Estado de S. Paulo conferem o Prémio Professor Emérito - Trotiu Guerreiro da Educação Ruy Mesquita 2021 a professora

SONIA GUIMARÃES

O Centro de Integração Empresa-Escola - CIEE e o Jornal O Estado de S. Paulo conferem o Prêmio Professor Emérito - Troféu Guerreiro da Educação Ruy Mesquita 2021 à professora

SONIA GUIMARÃES

São Paulo, 10 de novembro de 2021. FSTADÃO 😽





#### Professores(as) Eméritos(as) Troféu Guerreiro da Educação

2006

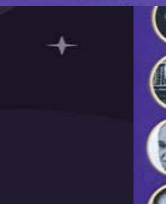
2007







### 2011 Angelita Habr-Gama















2008 Evanildo Cavalcante Bechara

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2009 Adio Jatene



**2010** José Cr*e*tella Jr.



**2011** CAngelita Habr-Gama



2013



2014 José Goldemberg



#### Ministra da Educação (1982–1985)



Pernando Henrique Cardese



Paule Mathamart

2020









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Sonia Guimarães (@drasoniaguimaraes): Ela é a primeira mulher negra brasileira doutora em Física e primeira mulher negra brasileira a lecionar no ITA. Sonia também é cientista e além de seu trabalho como professora no Instituto Tecnológico de Aeronáutica, também é mentora de diversos projetos para incentivar a

Edição

4.587 curtidas HÁ 1 DIA





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## drasoniaguimaraes 🧔 🗸 鱼



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# THANK YOU VERY MUCH soniagui@ita.br soniagui56@gmail.com drasoniaguimaraes