

# CERTIFICATE



We hereby certify that Adriana Laurindo Monteiro, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Adriana Mayumi Shiguihara, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Alan Bruno do Nascimento, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Alexei Abaevich Mailybaev, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Aloísio Pessoa de Araújo, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Ana Cascon, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Ana Cristina Barreto Sabino de Araújo, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Ana Patrícia Carvalho Gonçalves, Instituto Superior Tecnico - Universidade de Lisboa, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Ana Paula de Araújo Chaves, Universidade Federal de Goiás (UFG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Ana Victoria Martins Quedo, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that André Nachbin, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Andrés Rodríguez, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Anne Caroline Carneiro de Albuquerque, Universidade Federal Fluminense (UFF), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Antonio André Novotny, Laboratório Nacional de Computação Científica (LNCC), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Antônio Catão Saboia Lima E Silva, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Arthur Augusto Coutinho Bizzi, Ambev - Cia de Bebidas Das Américas, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Arthur José do Monte Melo, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Artur Assis Amorim, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Artur Avila Cordeiro de Melo, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Átila Felipe de Souza Figueredo, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Bernardo Nunes Borges de Lima, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Brandon Hinostroza Torres, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Brayan Cuzzuol Ferreira, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Caio Andrade de Souza Gonçalves, Fundação Getúlio Vargas - Rio de Janeiro (FUNDAÇÃO GETÚLIO VARGAS - RIO DE JANEIRO), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Caio Andrade de Souza Gonçalves, Fundação Getúlio Vargas - Rio de Janeiro (FUNDAÇÃO GETÚLIO VARGAS - RIO DE JANEIRO), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Caio Cesar Mafia Bueno, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Caio Correa Melo, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Carlos Andres Toro Cardona, Instituto de Matemática Pura e Aplicada, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Carlos de Góes Mascarenhas Filho, Cgm Gestão de Recursos, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Carlos Kenig, University of Chicago (UNIV. CHICAGO), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Carlos Raúl Urtecho Vidaurre attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Carolina Bhering de Araujo, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Carolina Dalmolin Ruviaro, Instituto de Matemática Pura e Aplicada, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Célio Augusto Terra de Souza, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Celso Melchiades do ria, Universidade Federal de Santa Catarina (UFSC), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Christian Jaime Maura Llauri, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Christian Júnior de Oliveira, IMPA, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that **Ciro Sobrinho Campolina Martins**, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Claudia Lorena Duarte Espitia, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Claudio Landim, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Crislaine Kuster, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Daniel Silveira Yukimura López, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Daniela Alejandra Paiva Peñuela, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Daniela Alves de Oliveira, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Dario Tavares de Castro Neto, Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro (IFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that David Jose de Melo Junior, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Deborah Sampaio Antunes de Oliveira, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that di Liu, Xiangtan University, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Diego Alonso Navarro Guajardo, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Diego Marques Ferreira attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Dmytro Bandak, University of Illinois At Urbana-Champaign, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Eddy Santiago Achig Andrango, Universidad San Francisco de Quito, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Eduardo Alves Da Silva, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Eduardo Magalhães de Castro attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Emanuel Mateus dos Santos Freire, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Enzo Alessandro Aljovin Navarro, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Eric Alberto Cabezas Bonilla, Universidade Federal do Rio de Janeiro (UFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Erika Paola Ortiz Bernal, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink, which reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Esteban Cifuentes, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Fabiani Aguiar Coswosck, Universidade Federal do Espirito Santo (UFES), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Fabiele Loterio, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Felipe de León Saenz Angel, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Felipe Gabriel Bogo, Universidade Estadual de Maringá (UEM), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Fernando Simoes Guimaraes Pinto Nazario, Universidade Estadual de Campinas (UNICAMP), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Filipe Barbosa Veiga, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Francisco José Gozzi, Universidade Federal do ABC (UFABC), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Frederico Rossetto Bianchini, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Gabriel Augusto Correia, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Gabriel Fazoli do mingos, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Gabriel Fernandes Lauria Pereira, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Gabriel Santos Barbosa, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Gabriel Sehnem Michels, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Gabriel Vianna de Almeida, Universidade Federal do Rio de Janeiro (UFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Gabriella Freitas Silva, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Gerardo Alonso Casana Romero, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Guerson Salgado, Universidade Federal Fluminense (UFF), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Guilherme Israel Vedana, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Guilherme Noronha Jardim, Pontificia Universidade Catolica do Rio de Janeiro (PUC-RIO), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Guilherme Vivas, Universidade Federal do Rio de Janeiro (UFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Gustavo Marques de Oliveira Martins, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Haliaphne Annh Acosta Aguilar, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink, which reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Hao Cheng, Instituto de Matemática Pura e Aplicada, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Harold Steven Erazo Jimenez, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Henrique Bursztyn, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Henrique Nogueira Bastos, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Hossein Movasati, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Hubert Marie Lacoïn, Instituto de Matemática Pura e Aplicada, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Hugo Duminil-Copin, University of Geneva, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Hugo Saraiva Tavares, Universidade Federal do Rio de Janeiro (UFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Humberto Rodrigues Pereira Menezes, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Ian Ornelas, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Itallo Kauan Silva Fernandes, Universidade do Estado do Rio de Janeiro (UERJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Ivan Miranda de Almeida, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Jaime José Orrillo Carhuajulca, Universidade Católica de Brasília (UCB), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Javier Arancibia, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Javier Nicolas Gargiulo Acea, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Jimmy Santamaria Torrez, Universidad Mayor de San Andrés (UMSA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Joao Candido Portinari, Projeto Portinari Puc-Rio, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Joao Morais Carreira Pereira, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that João Paulo Da Costa Ferreira, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that João Pedro de Abreu Marciano, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that João Pedro Loewe Mangi, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Jonas Rocha Lima Amaro, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Jonathan Augusto Trejos Olmos, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Jorge Vitório Bacellar dos Santos Pereira, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that José Victor Da Trindade Medeiros, Universidade Federal do Rio Grande do Norte - Natal (UFRN - NATAL), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Juan Carlos Arroyave Blanco, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Juan Márquez, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Julia do mingues Lemos, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Julian Alexandre de Amorim, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Keily Alejandro Vicente de León, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Khadim Mbacke War, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink, which reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Leonardo Machado Moreira, Universidade do Estado do Rio de Janeiro (UERJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Leonardo Silva de Oliveira, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Leonardo Voltarelli Regini de Andrade, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Luana Aparecida Soares Costa, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Lubomir Gavrilov, Institut de Mathématiques de Toulouse, France, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Lucas Barcelos de Sousa de Abreu attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022..

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Lucas Coelho Ambrozio, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Lucas Da Rocha Schwengber, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Lucas Garcia Gomes, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink, which reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Luciana Luna Anna Lomonaco, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Luiz Carlos Pacheco Rodrigues Velho, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Manoel de Sá Jardim Neto, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marcela de Fátima Ribeiro Nascimento, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marcelo Gomes Da Silva Carneiro, Ernst & Young Terco Assessoria Empresarial Ltda (ERNST & YOUNG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marcelo José Miranda Cunha Filho, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marcelo Miranda Viana Da Silva, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Marcelo Richard Hilário, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marcelo Soares Campos attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Márcia Monteiro Matos, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Márcio Henrique Marques Macedo, Conservatoire National Des Arts Et Métiers, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marco Vinicius Bahi Aymone, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marguerite Flexor, Universite Paris - Sud, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marguerite Flexor, Universite Paris - Sud, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Maria José Pacífico, Universidade Federal do Rio de Janeiro (UFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Mariano Ortiz More, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marlon Michael Lopez Flores, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Marvin Leal, Universidade Federal do Estado do Rio de Janeiro (UNIRIO), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Mateus Gomes Figueira, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Mateus Spezia, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Matheus de Sousa Oliveira, Universidade Federal do Rio de Janeiro (UFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Matias Cristobal Vargas Zambrano, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink, which reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Maurício Darós Andrade, University of Pennsylvania, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Mila Soares de Oliveira de Souza, Microsoft Research, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Milton David Jara Valenzuela, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Nelson Roberto Weirich Junior, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Nicolas Soto, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Oscar Armando Hernández Morales, Universidade de São Paulo (USP), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Oscar Chacón-Rivera, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Paulina Ciudad, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Paulo Afonso Da Silva Passos, Universidade Federal do Piauí (UFPI), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Paulo Najberg Orenstein, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Paulo Rogério Souza Brandão, Universidade Federal da Bahia (UFBA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Persi Warren Diaconis, Stanford University, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Peter Hazard, Universidade Federal Fluminense (UFF), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Rafael Eusebio Labarca, Universidad de Santiago de Chile, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Rafael Filipe dos Santos, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Rebeca Alves Dantas de Lima E Silva, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Reimundo Heluani, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Ricardo Carlos Freire attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Ricardo Jensen Didonet, Universidade Federal do Rio de Janeiro (UFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Robert David Morris, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Roberto Andrés Viveros Vera, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Rocio Nores, Universidad de Buenos Aires, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Rodrigo Arruda Rodrigues, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Roger Javier Metzger Alvan, Universidad Nacional de Ingenieria, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Samantha Condessa Fernandes de Oliveira, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Sebastian Lucas Velazquez attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Sergio Corrêa Neto, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink, which reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Smirnov, Stanislav, Univ. Genevre, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Thadeu Henrique Cardoso Vieira Alves de Souza Costa, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Thais Gomes Ribeiro, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Thyago Souza Rosa Santos, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Tiago Henrique Picon, Universidade de São Paulo - Ribeirão Preto (USP - RIBEIRÃO PRETO), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in blue ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Ulrike Tillmann, Isaac Newton Institute for Mathematical Sciences, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Varia Mendez, Pontificia Universidad Católica de Valparaíso, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Vilton Jeovan Viana Pinheiro, Universidade Federal da Bahia, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Vinicius Gripp Barros Ramos, Université de Nantes, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Wesley Quaresma Cota, Universidade Federal de Minas Gerais (UFMG), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that William Shadwick, Omega Analysis, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Wilson Alberto Cabanillas Banda, Universidade Federal do Rio de Janeiro (UFRJ), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Wilson Veleci Da Silva, Ministério Público Federal, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Yangrui Xiang, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee





# CERTIFICATE



We hereby certify that Yingjian Liu, Instituto de Matemática Pura e Aplicada, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Yulia Petrova, Instituto de Matemática Pura e Aplicada (IMPA), attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee



# CERTIFICATE



We hereby certify that Zoraida Fernandez Rico, Columbia University, attended the Conference IMPA 70 Years, held at IMPA, Rio de Janeiro Brazil, from October 17 – 21, 2022.

A handwritten signature in black ink that reads 'Marcelo Viana'.

Marcelo Viana  
Organizing Committee

