

XIX School on Differential Geometry

Escola Brasileira de Geometria Diferencial

IMPA, Rio de Janeiro, Brazil

July 18 - 22, 2016



CERTIFICATE

We hereby certify that, **Abigail Silva Duarte Folha, Universidade Federal Fluminense**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Abraão Caetano Mendes***, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Adam Oliveira da Silva**, **Universidade Federal do Pará**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Adilson da Silva Nunes**, **Universidade Federal do Rio Grande do Sul**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Adrian Vinícius Castro Ribeiro**, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Adriana Araujo Cintra**, **Universidade Federal de Goiás-Jataí**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Alcides de Carvalho Júnior**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Alex Zamudio**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Alexandre de Sousa Mota**, **Universidade Federal do Ceará**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Alexei Mailybaev**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Aline Zanardini**, **Universidade Federal do Paraná**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Álvaro Krüger Ramos**, **Universidade Federal do Rio Grande do Sul**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Antonio Airton Freitas Filho**, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Antonio Wilson Rodrigues da Cunha**, **Universidade Federal do Piauí**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Apoenã Passos Passamani***, **Universidade Federal do Espírito Santo**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Benedito Leandro Neto**, **Universidade Federal do Oeste da Bahia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Berenice Zavala Jiménez**, **Universidad Nacional Autonoma de Mexico**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Bianka Carneiro Leandro***, Pontifícia Universidade Católica de Goiás, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Brian White**, **Stanford University**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Bruno Marino Xavier, Universidade de Brasilia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Bruno Mascaro**, Instituto de Matemática e Estatística da USP, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Carlos Jose Matheus**, **Universidade Estadual de Ponta Grossa**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Cayo Rodrigo Felizardo Dória**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Celso Viana, University College London**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Chao Li, Stanford University**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Clebes do Nascimento Brandão***, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Cleidinaldo Aguiar Souza**, Instituto de Ciências Matemáticas e de **Computação**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Clément Maria**, **The University of Queensland**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Cristian Camilo Cárdenas Cárdenas***, Instituto de Matemática e Estatística da **USP**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Da Rong Cheng, Stanford University**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Dan Anibal Agüero Cerna**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Daniel Oliveira Silva**, **Universidade Federal de Minas Gerais**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **David Allen Hoffman, Stanford University**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Detang Zhou**, **Universidade Federal Fluminense**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Dimas Percy Abanto Silva***, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Ditter Adolfo Yataco Tasayco***, Universidade do Estado do Rio de Janeiro, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Edno Alan Pereira**, **Universidade Federal de Minas Gerais**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Eduardo Hitomi***, **IMECC**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Eduardo Rosinato Longa***, **Universidade Federal do Rio Grande do Sul**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Emanuel Mendonça Viana***, **Universidade Federal do Ceará**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Eraldo Almeida Lima Júnior***, Universidade Federal da Paraíba - João Pessoa, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Erikson Alexandre Fonseca dos Santos***, **Universidade de Brasilia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Ernani de Sousa Ribeiro Júnior***, **Universidade Federal do Ceará**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Euripedes Carvalho da Silva***, Instituto de Matemática e Estatística, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Fábio Reis dos Santos**, **Universidade Federal de Campina Grande**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Fabricio de Figueredo Oliveira***, **Universidade Federal Rural do Semi-Árido**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Felippe Soares Guimarães**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Fernanda Alves Caixeta**, **Universidade Federal de Uberlândia - Campus do Pontal**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Fernanda Roing**, **Universidade Federal da Paraiba - João Pessoa**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Fernando Maia Nardelli Escobosa***, Instituto de Matemática e Estatística da **USP**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Flávio França Cruz**, **Universidade Regional do Cariri**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Francisco Vanderson Moreira de Lima**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Franco Vargas Pallete**, **University of California at Berkeley**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Frederico Vale Girão**, **Universidade Federal do Ceará**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Gabriela Albuquerque Wanderley**, **Universidade Federal da Paraíba - João Pessoa**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Gisele Teixeira Paula***, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Gregory Cosac**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Guillermo Antonio Lobos**, **Universidade Federal de São Carlos**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Haimer Alexander Trejos**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Harold Rosenberg**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Heber Mesa Palomino**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Henrique N. Sá Earp, IMECC**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Hilário Alencar da Silva**, **Universidade Federal de Alagoas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Hiuri Fellipe Santos dos Reis**, **Universidade de Brasilia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Hudson do Nascimento Lima**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Hudson Pina de Oliveira**, **Universidade de Brasilia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Igor Sampaio e Melo de Miranda**, **Universidade Federal Fluminense**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Israel de Sousa Evangelista**, **Universidade Federal do Piauí**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Ivan Passoni***, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Jhovanny Muñoz Posso**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **João Filipe Bezerra Pereira**, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **João Francisco da Silva Filho**, **Universidade da Integração Internacional da Lusofonia Afro-Brasileira**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Jorge Herbert Soares de Lira**, Universidade Federal do Ceará, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **José Antonio Gálvez, Universidad de Granada**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **José María Espinar García**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **José Nazareno Vieira Gomes**, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Juliana Ferreira Ribeiro de Miranda***, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Júlio César Carvalho Pereira**, **Universidade Federal da Bahia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Julio César Conegundes da Silva, IMECC**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Laurent Hauswirth**, **Université de Marne-la-Vallée**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Laurent Mazet, CNRS**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Lissa de Souza Campos, USP - Instituto de Física**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Loubeau, Univ. Brest**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Lucas Coelho Ambrozio, Imperial College London**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Lucio Ladislao Rodriguez**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Luis Pánfilo Yapu Quispe**, **Universidade Federal Fluminense**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Luiz Carlos Barbosa da Silva**, **Universidade Federal de Pernambuco**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Lumena Paula de Jesus Borges**, **Universidade de Brasilia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Makson Sales Santos**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Manfredo Perdigão do Carmo**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Marco Aurelio Mendez Guaraco**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Marcos Paulo Tassi**, **Universidade Federal de São Carlos**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Marcos Petrúcio de Almeida Cavalcante***, **Universidade Federal de Alagoas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Maria Rosilene Barroso dos Santos***, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Maríel Saez, PUC de Chile - Santiago**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Mateus Moreira de Melo**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Michael B. Deutsch**, **Universidade Federal do Rio de Janeiro**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Miguel Ibieta Jimenez***, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, ***Mikhail Belolipetsky***, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Miriam Telichevesky**, **Universidade Federal do Rio Grande do Sul**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Moritz Reintjes**, **IMPA - Pós-Doutorando de Excelência**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Neilha Marcia Pinheiro**, **Universidade Federal do Ceará**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Nicolau Sarquis Aiex**, **Imperial College London**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Pablo Asdrúbal Díaz Sepúlveda***, Instituto de Matemática e Estatística da USP, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Patricia Kruse Klaser**, **Universidade Federal do Rio Grande do Sul**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Paul Laurain, Université ParisVII -Denis Diderot**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Pedro Henrique Gaspar Marques da Silva***, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Pedro Manfrim Magalhães de Paula***, IMECC, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, ***Plinio Guillel Pino Murillo***, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Rafael Alves da Ponte**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Rafael Jorge Pontes Diógenes**, **Universidade da Integração Internacional da Lusofonia Afro-Brasileira**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Rafael Montezuma Pinheiro Cabral**, **Princeton University**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Raimundo Neto Nunes Leão**, **Universidade Federal do Pará**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Rayssa Helena Aires de Lima Caju**, Universidade Federal da Paraíba - João Pessoa, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Rémi Langevin**, **Université de Bourgogne**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Renata Carvalho Villar da Silva**, Instituto Nacional de Matemática Pura e Aplicada, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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CERTIFICATE

We hereby certify that, **Renato de Azevedo Tribuzy**, **Universidade Federal do Amazonas**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Renivaldo Sodré de Sena**, **Universidade Federal do Ceará**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Richard Santiago Quispe Rivas**, **Universidade Federal Fluminense**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Richard Schoen**, **Stanford University**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Roberto Alonso Roque Nuñez**, Universidade Federal do Rio Grande do Sul, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Rodrigo Ristow Montes**, **Universidade Federal do Paraná**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Ronaldo Freire de Lima**, Universidade Federal do Rio Grande do Norte, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Ruy Tojeiro de Figueiredo Junior**, **Universidade Federal de São Carlos**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Sergey Agafonov**, **Universidade Estadual Paulista - São José do Rio Preto**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Simone de Freitas de Souza**, Pontifícia Universidade Católica do Rio de Janeiro, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Stefano Nardulli**, **Universidade Federal do Rio de Janeiro**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Tarcísio Castro Silva**, **Universidade de Brasilia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Thiago Lourenço Pires**, **Universidade Federal do Espírito Santo**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Thomas Raujouan, Univ. de Tours**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Valter Borges Sampaio Junior**, **Universidade de Brasilia**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **Walcy Santos**, **Universidade Federal do Rio de Janeiro**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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We hereby certify that, **William Meeks III, Univ. of Massachusetts at Amherst**, participated in the XIX School on Differential Geometry, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from June 18th to 22th, 2016.

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