TYAN THEMATIC WORKSHOP IN MATHEMATICS AND ADVANCED SCHOOL IN MATHEMATICS

November 7-11, 2022
IME-USP

INVITED SPEAKERS

ALEXANDER ARBIETO – TYAN MEMBER, UNIVERSIDADE FEDERAL DO RIO DE JANEIRO, BRAZIL
DANIEL PELLEGRINO – TYAN MEMBER, UNIVERSIDADE FEDERAL DA PARAÍBA, BRAZIL
EDERSON MOREIRA DOS SANTOS – BAS MEMBER, ICMC/UNIVERSIDADE DE SÃO PAULO, BRAZIL
EDUARDO TEIXEIRA – TYAN MEMBER, UNIVERSITY OF CENTRAL FLORIDA, USA
EMÍLIO LAURET – INSTITUTO DE MATEMÁTICA DE BAHÍA BLANCA, ARGENTINA
ERNESTO LUPERCIO – TYAN MEMBER, CENTRO DE INVESTIGACIÓN Y DE ESTUDIOS AVANZADOS DEL IPN, MEXICO
GABRIELA PLANAS – UNIVERSIDADE ESTADUAL DE CAMPINAS, BRAZIL
JAQUELINE MESQUITA – TYAN MEMBER, UNIVERSIDADE DE BRASÍLIA, BRAZIL
KETI TENENBLAT – TWAS MEMBER, UNIVERSIDADE DE BRASÍLIA, BRAZIL
PAULO CORDARO – TWAS MEMBER, IME/UNIVERSIDADE DE SÃO PAULO, BRAZIL
YOSHIKO WAKABAYASHI – BAS MEMBER, IME/UNIVERSIDADE DE SÃO PAULO, BRAZIL

MINI-COURSES

HELENA NUSSENZVEIG LOPES – BAS MEMBER, TWAS AWARD 2022, UNIVERSIDADE FEDERAL DO RIO DE JANEIRO, BRAZIL
MARIEL SAEZ – PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE
YOSHIHARU KOHAYAKAWA – TWAS MEMBER, IME/UNIVERSIDADE DE SÃO PAULO, BRAZIL

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MARIA JOSÉ PACÍFICO – UNIVERSIDADE FEDERAL DO RIO DE JANEIRO, BRAZIL
PAOLO PICCIONE – IME/UNIVERSIDADE DE SÃO PAULO, BRAZIL
RENATO ITURRIAGA – CENTRO DE INVESTIGACIÓN EN MATEMÁTICAS, MEXICO

ORGANIZING COMMITTEE

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FERRÁN VALDEZ – UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, MEXICO
EDUARDO TEIXEIRA – UNIVERSITY OF CENTRAL FLORIDA, USA

ORGANIZATION

SBM — SOCIEDADE BRASILEIRA DE MATEMÁTICA
TYAN — TWAS YOUNG AFFILIATES/ALUMNI NETWORK
Academia Joven de Argentina
TWAS LACREP — Latin America and the Caribbean Regional Partner

SUPPORT

105 años 1916 - 2021 — ACADEMIA BRASILEIRA DE CIÊNCIAS
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Welcome to

6th TYAN Thematic Workshop in Mathematics and 1st Advanced School in Mathematics

TYAN Thematic Workshop in Mathematics and Advanced School in Mathematics

Book of Abstracts

TYAN Thematic Workshop in Mathematics and Advanced School in Mathematics

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Luana Giacomini Barbosa (IME/University of São Paulo, Brazil)
Pedro Henrique Alves de Queiroz (IME/University of São Paulo, Brazil)

Opening Ceremony: Monday, November 7, from 08:30 to 9:00

Paolo Piccione - Chair of the Organizing Committee
Franco Cabrerizo - Chair of the Executive Committee - TYAN
Helena Nader - President of the BAS
Luiz Davidovich - Secretary-General of TWAS
Virgílio de Almeida - Chair TWAS-LACREP
Sergio Oliva - Director of IME/USP
Jaqueline Mesquita - Member of the Executive Committee TYAN

Invited Speakers

Alexander Arbieto- TYAN Member (Federal University of Rio de Janeiro, Brazil)
Daniel Pellegrino - TYAN Member (Federal University of Paraíba, Brazil)
Ederson Moreira dos Santos - Bas Member (ICMC/ University of São Paulo, Brazil)
Eduardo Teixeira -TYAN Member (University of Central Florida, USA)
Emílio Lauret (Instituto de Matemática de Bahía Blanca, Argentina)
Ernesto Lupercio - TYAN Member(Centro de Investigación Y de Estudios Avanzados Del IPN,Mexico)
Gabriela Planas (Estadual University of Campinas, Brazil)
Helena Nussenzveig Lopes-BAS Member, TWAS Award 2022(Federal University of Rio de Janeiro)
Jaqueline Godoy Mesquita - TYAN Member (University of Brazilia, Brazil)
Keti Tenenblat - TWAS Member (University of Brazilia, Brazil)
Paulo Cordaro - TWAS Member (IME/University of São Paulo, Brazil)
Yoshiko Wakabayashi - BAS Member (IME/University of São Paulo, Brazil)

Mini-Courses

Mariel Saez (Pontificia Universidad Católica de Chile, Chile)
Yoshiharu Kohayakawa - TWAS Member (IME/University of São Paulo, Brazil)

Panel

Panel 1: The actions of Committees of Gender and Diversity

Vanderlan da Silva Bolzani - UNESP, TWAS member (moderator)
Marcia Barbosa - UFRGS, Brazil, Member of Committee of Gender and Diversity of TWAS
Cintya Benedito - Unesp, Member of Committee of Gender and Diversity of SBM/SBMAC
Mariel Saez - PUC/Chile, Member of Colectivo de mujeres matemáticas en Chile
Christina Brech - USP, Member of Committee of Gender and Diversity of UMALCA

Panel 2: 40 years of birthday of Revista do Professor de Matemática

Ana Catarina Hellmeister - member of the editorial board of Revista do Professor de Matemática
Pastore de Mello - member of the editorial board of Revista do Professor de Matemática

Survey of isospectral homogeneous Riemannian manifolds

Emílio Lauret (Instituto de Matemática de Bahía Blanca)
Argentina

Abstract

We will review several results on inverse spectral geometry in the setting of homogeneous Riemannian manifolds. Some key points will be Schueth's examples of continuous curves of isospectral left-invariant metrics on compact Lie groups, Sutton's construction of isospectral compact homogeneous Riemannian manifolds (as a generalization of Sunada-Pesce's method), and spectral isolation/uniqueness problems among $G-$invariant metrics on a fixed homogeneous space G/K.

Plenary talk 5:

Tuesday (November, 8), $13:30 - 14:30$