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A 2-week international school designed to introduce graduate students to the next frontier in astrophysics, cosmology and fundamental physics, where extreme phenomena are observed with multiple messengers: **from light to neutrinos, from cosmic rays to gravitational waves.**

May 29th - June 7th, 2023

LECTURERS

Carlos Arguelles Delgado (Harvard)
High Energy Neutrino Astrophysics

Alicia López Oramas (IAC)
Very High Energy Gamma-Ray Astronomy

Irene di Palma (Rome)
Gravitational Waves

Zoltan Haiman (Columbia)
The Astrophysics of Black Hole Mergers

ADDITIONAL LECTURES BY:

Brian Reville (Max Planck) - **Emille Ishida** (Clermont-Ferrand) - **Farinaldo Queiroz** (IIP)
Ivone Albuquerque (USP) - **Juan Estrada** (Fermilab) - **Mario Diaz** (U. Texas) - **Martin Makler** (CBPF)

TRAVEL SUBSIDIES FOR STUDENTS ARE AVAILABLE

Deadline for registration and financial aid applications: March 17, 2023. More information at:
https://www.institutoprincipia.org/mma-school

Scientific Organizing Committee: Raul Abramo (USP), Ivone Albuquerque (USP), Rita de Cássia dos Anjos (UFPR), Enrico Bertuzzo (USP), Rodrigo Nemmen (USP), Orlando Peres (Unicamp), Edivaldo Moura Santos (USP), L. Vitor de Souza (USP), Riccardo Sturani (UNESP)

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