



ICRANet

International Center for Relativistic Astrophysics Network

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Dear Members of the ICRANet Scientific Committee,

I am happy to send you here below the updated agenda of the 21st virtual meeting of the ICRANet Scientific Committee, that will be held on Monday January 29, 2024 from 10:00 a.m. (Italian time) until 6:00 p.m. (Italian time), via GoToMeeting at this link: <https://global.gotomeeting.com/join/750192021>:

1. Opening remarks by Prof. Remo Ruffini, Director of ICRANet
2. *Lectio magistralis* by Prof. Massimo Della Valle, Chairman of ICRANet Scientific Committee;
3. Welcome address by Prof. Liborio Stuppia, Rector of Ud'A;
4. Report on ICRANet scientific and research activities for 2023:
 - Multiwavelength and Multimessenger emission from Active Galactic Nuclei (Prof. Narek Sahakyan);
 - Physics and Astrophysics of Compact Objects (Prof. Jorge A. Rueda H.);
 - Gamma-Ray Bursts (Prof. Carlo Luciano Bianco);
 - GRBs formation rates and spinning ν NS rise (Prof. Taghi Mirtorabi);
 - The THESEUS mission project: overview and current status (Prof. Lorenzo Amati);
 - The Penrose process: updating and generalization (Prof. Hernando Quevedo);
 - An historical perspective on the Penrose process (Prof. Tsvi Piran);
 - Generalization of the Kerr-Newman solution (Prof. Hernando Quevedo);
 - ICRANet-Minsk report (Prof. Gregory Vereshchagin);
 - Theoretical Astroparticle Physics (Prof. Gregory Vereshchagin);
 - Cosmology Group of Tartu Observatory (Prof. Jaan Einasto);
 - Black Holes and Quasars (Prof. Brian Punsly);
 - Electron-positron pairs in physics, astrophysics and cosmology (Prof. Shesheng Xue);
 - ICRANet – China report (Prof. Shesheng Xue);
 - Prof. Piero Di Carlo (Ud'A);
 - Self-gravitating Systems of Dark Matter Particles (Prof. Carlos Raul Arguelles);
 - Supernovae (Prof. Massimo Della Valle);
 - Symmetries in General Relativity (Prof. Donato Bini);
 - Self Gravitating Systems, Galactic Structures and Galactic Dynamics (Prof. Simonetta Filippi);
 - Interdisciplinary Complex Systems: Theoretical Physics Methods in Systems Biology (Prof. Christian Cherubini);
 - Consideration on spherically symmetric systems in General Relativity (Prof. Carlo Maria Pace).
5. Miscellanea.

With my best personal regards,

Prof. Remo Ruffini



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