The course is designed for PhD students and young post-doctoral researchers. It will offer an overview of the current knowledge of a key Space Weather region, the radiation belts, and in particular on its related energization and loss processes due to wave-particle interactions, and particle precipitation into the atmosphere. These processes are strongly governed by the properties of the plasmasphere (the outward extension of the ionosphere) which is partially overlapping with the radiation belts. Part of the course will be then devoted to present, both from a theoretical and observational point of view, as well as through modelling, the basic plasmasphere dynamics, including its coupling with the ionosphere.

SCHOOL RATIONALE

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GENERAL INFORMATION

The School will be held at the Università degli Studi dell’Aquila.

Applications, including a brief curriculum vitae, are due before 5th June, 2022. See the website www.cifs-isss.org/application.asp for details.

The fee of 1000 Euro includes board and lodging in shared double rooms at nearby hotels and B&Bs. Some financial support will be available for a limited number of students on request.

Applications will be evaluated by the Scientific Committee of the International School of Space Science. All applicants will be notified by e-mail.

All participants must be aware of the measures adopted in Italy for the epidemiological emergency from Covid-19. https://www.salute.gov.it/portale/nuovocoronavirus/homeNuovoCoronavirus.jsp?lingua=english