

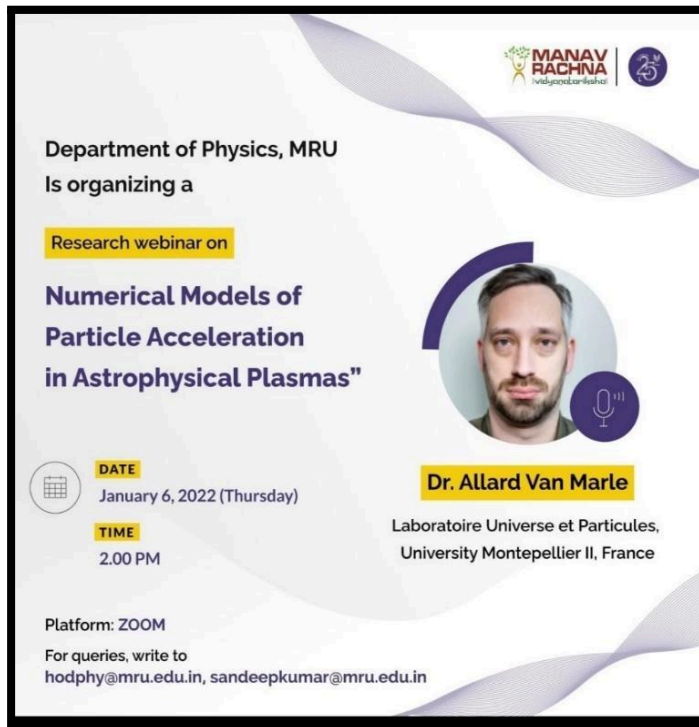
Research webinar on "Numerical models of particle acceleration in Astrophysical Plasmas"

Date: 6th January 2022

Mode: Online

Zoom link:

Time: 02:00 PM



Department of Physics, MRU
Is organizing a

Research webinar on

**Numerical Models of
Particle Acceleration
in Astrophysical Plasmas"**

Dr. Allard Van Marle
Laboratoire Universe et Particules,
University Montpellier II, France

DATE
January 6, 2022 (Thursday)

TIME
2.00 PM

Platform: ZOOM
For queries, write to
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Department of Physics organized a research webinar on "Numerical models of particle acceleration in Astrophysical Plasmas" on 6th January/2022 between 2:00 PM to 3:15 PM, through zoom platform to commemorate 25 years of silver jubilee celebrations of Manav Rachna institute.

The lecture in this webinar was given by Dr. Allard Jan van Marle, Université de Montpellier, France. Dr. Sandeep Kumar, Associate Professor, delivered a welcome address and introduced the resource person, Dr. Allard Jan van Marle.

Dr. Allard delivered a webinar on the topic "Numerical models of Particle Acceleration in Astrophysical Plasmas". He started with a brief introduction about Astrophysical plasma systems and a brief discussion on some unsolved research problems therein. He discussed potential numerical methods to solve large-scale astrophysical plasma systems in laboratory frames. He combined magneto-hydrodynamics and particles in cell methods to solve such large-scale systems. He further emphasized that these simulations are computationally expensive. A high-performance computing facility becomes necessary to handle 3D simulations

of these large astrophysical systems. It was an interesting talk. Several questions were asked during the webinar, and the speaker humbly answered all the questions.