

Subject: Theory Seminar today, 14:00 c.t.
From: domingo@physik.uni-bonn.de
Date: 17.01.22, 10:30
To: alle@th.physik.uni-bonn.de
CC: camilo.garcia.cely@desy.de

Dear all,

This is a reminder of today's theory seminar at 14:15 (14:00 c.t.) in Seminar Room 1 (or accessible via Zoom)

Looking forward to seeing you there,

Florian

THEORY SEMINAR: Monday January, 17th, 14:00 c.t. in Seminar Room 1

A limited number of masked attendees with 3G status will be admitted in the room.
Alternatively, the seminar can be followed via Zoom.

Title: New ideas for detecting gravitational waves

Speaker: Camilo Garcia Cely (DESY)

Abstract: In complete analogy with axion dark matter, gravitational waves are converted into electromagnetic radiation when they propagate in magnetic fields. I will explain how this effect can be used to detect gravitational waves in laboratory experiments. I will also examine gamma-ray observations by Fermi-LAT and HESS strongly suggesting the existence of a non-vanishing cosmic magnetic field. Then, I will show how the consequent conversion of gravitational waves into radio waves might distort the CMB, leading to bounds that exceed those from current terrestrial experiments. Finally, I will discuss future prospects.
Based on: PhysRevLett.126.021104

Florian Domingo is inviting you to a scheduled Zoom meeting.

Topic: THEORY SEMINAR: Monday January, 17th, 14:00 c.t.
Time: 17 Jan. 2022 02:00 PM Paris

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