

Webinar: The geometry of a robotic arm in a tunnel by Dr. Cesar Ceballos (TU Graz, Austria)

by Bishal Deb - Monday, November 09, 2020

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Gonit Sora is organizing a webinar to be delivered by **Dr. Cesar Ceballos** of TU Graz, Austria. The details are given below.

Date: **20 November, 2020 (Friday)**

Time: **4 pm IST**

Title: **The geometry of a robotic arm in a tunnel**

Abstract: How can we move a robot from one position to another in the most optimal way? In this talk, we will approach this question in the case of a robotic arm moving in a rectangular tunnel. For this, we will consider the map of all possible states of the robot. This map gets rapidly complicated, however, it has a nice (higher dimensional) geometric structure which can be used to move the robot efficiently from one position to another.

About the Speaker: *Dr. Cesar Ceballos is a Postdoc at TU Graz, Austria. He obtained his doctoral degree in 2012 from Freie Universität Berlin, Germany under the supervision of Günter Ziegler. He then worked as a Banting Postdoctoral Fellow in York University, which is Government of Canada's most prestigious award for postdoctoral research. He was a visitor member of the Fields Institute in Canada and then a postdoc at University of Vienna, Austria where he obtained his habilitation degree in May this year. He works in discrete geometry, polytope theory, algebraic, enumerative and geometric combinatorics, Hopf algebras, diagonal harmonics, representation theory, and tropical geometry.*

The talk will be suitable for a general audience (college students are specially welcome), and will be held online via Zoom. It will also be livestreamed on our [Facebook page](#).

All our talks are recorded and the recording is made available on our [YouTube channel](#) later.

e-Certificates will be issued to participants who attend the talk on Zoom.

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