TU Graz
Graz University of Technology

GRAZ CENTER OF PHYSICS

UNI GRAZ

PHYSICS COLLOQUIUM OF THE UNIVERSITY OF GRAZ AND
THE GRAZ UNIVERSITY OF TECHNOLOGY

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From the Higgs Discovery to the Future of Particle Physics

The discovery of the Higgs boson at CERN in 2012 marked a major achievement, completing a key piece of the Standard Model of Particle Physics. Yet, far from closing a chapter, it opened new avenues in our quest to understand the fundamental laws of nature.

In this colloquium, I will describe some of the challenges faced by the CMS experiment at the Large Hadron Collider (LHC) in discovering the Higgs boson and discuss what we have learned about its properties since. I will then explore some of the fundamental open questions in Particle Physics and look ahead to the future of the field.

From the Higgs discovery to the proposed Future Circular Collider (FCC), the potential next flagship project at CERN, this journey illustrates both the remarkable progress we have made and the exciting opportunities that lie ahead.

Date:	Tuesday, 24 November 4:15 p.m.
Lecture:	Lecture Hall 05.01, ground floor, Universitaetsplatz 5, Institute of Physics, University of Graz
Meet the speaker:	3:45 p.m. until 4:15 p.m., Library Experimental Physics, 1st floor
Host:	Willibald Plessas

For a regularly updated colloquium program see: Physics Colloquium