



# INVITATION

## Joint Theory Seminar Particle Physics and Gravitational Physics

to the talk by

**Sebastian ELLIS**  
(University of Geneva)

on

***“(High Frequency) Gravitational Waves:  
How and Where to Find Them“***

### **Abstract:**

In the same way that we have learned about the universe by observing it across the full electromagnetic spectrum, we expect to learn as much or more by attempting to observe the universe across the full gravitational spectrum. This has resulted in many exciting ideas for how to measure the high-frequency part of the gravitational spectrum. In this talk, we will discuss the basics of gravitational waves and their detection at the standard quantum limit. A corollary of this basic discussion will be a heuristic limit on our ability to detect cosmogenic gravitational waves at high frequencies with existing and near-future technology.

---

**Time: Tuesday, 8 October 2024, 4:15 p.m.**

**Location: Erwin-Schrödinger-Hörsaal, Boltzmannngasse 5, 5<sup>th</sup> floor**

Join Zoom Meeting - Meeting ID: 933 4269 3866 Passcode: 185096  
<https://univienne.zoom.us/j/93342693866?pwd=aUpTR0VJNUhJY2Q0ajdaKzI1YWVhQ09>

gez.: A. Hoang, M. Procura; P. Chrusciel, D. Fajman