



# ***EINLADUNG***

im Rahmen des Seminars für Mathematische Physik  
(Joint TU/UV Theory Seminar)

zum Vortrag

von

**Robert Brandenberger**

(McGill University Montreal)

über

***„Some approaches to superstring cosmology“***

**Abstract:**

I will review the criteria which a model of the early universe must satisfy in order to make successful contact with current observations.

I will then show that effective field theory inevitably breaks down in the early universe, and that tools from quantum gravity must be used if we are to understand the early stages of the universe.

I will then discuss models of early universe cosmology arising from superstring theory, in particular "String Gas Cosmology".

**Zeit:** Dienstag, 28.03.2023, 14.00 h

**Ort:** Erwin-Schrödinger-HS, Fakultät für Physik, Boltzmannngasse 5, 5. Stock

gez.: S. Fredenhagen, D. Grumiller, H. Steinacker, R. Ruzziconi