



# *E I N L A D U N G*

im Rahmen des Teilchenphysikseminars

zum Vortrag

von

**Gian Giudice**  
(CERN)

über

*„The status of naturalness I“*

**Abstract:**

Naturalness arguments have been a powerful guiding principle for physicists as they try to construct new theories.

When applied to our current description of the microscopic world in terms of quantum field theory, naturalness leads to the apparent paradox of the smallness of the electroweak scale and the cosmological constant, as compared to the Planck scale. The hypotheses on which naturalness rests, the consequences of relaxing some of these hypotheses, and the current attempts to develop new paradigms beyond naturalness will be discussed.

**Zeit:** Dienstag, 17.10.2023, 16:15 h

**Ort:** Erwin-Schrödinger-Hörsaal, Boltzmanngasse 5, 5. Stock

Join Zoom Meeting - Meeting ID: 933 4269 3866 Passcode: 185096

<https://univienna.zoom.us/j/93342693866?pwd=aUpTR0VJNUhJY2Q0ajdaKzI1YWVVBQT09>

gez.: A. Hoang, M. Procura