

HABILITATIONSKOLLOQUIUM
DR. SILVIU-CRISTIAN RADU
(INSTITUT FÜR SYMBOLISCHES RECHNEN)

Freitag, 24. Mai 2024, 10.00 Uhr
Raum HA 105 (RISC, Hagenberg)

oder

via Zoom: <https://jku.zoom.us/j/97382202890?pwd=d1pNNUx2VjhKT0pMYkxrdjZgQUhPUT09>

Meeting ID: 973 8220 2890

Passwort: RISC

Algorithms and theorems for proving identities related to modular functions

In this talk we present a summary of the articles contained in our Habilitation treatise. These articles are about algorithms related to proving identities and congruences linked to modular functions. Also we present theorems that are naturally connected to such algorithms. For example we give a proof of the Weierstrass gap theorem without using the Riemann-Roch theorem. Another example is a result concerning the divisibility of the partition function $p(n)$ by 2. Namely that there exist no natural numbers $A > 0$ and B such that $p(An+B)$ is divisible by 2 for all n .