



# ***EINLADUNG***

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

zum Vortrag

von

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(University of Vienna)

über

***„Exact pp-wave solutions in chiral higher spin gravity“***

**Abstract:**

We derive exact pp-wave solution of chiral HSGRA using free differential algebra (FDA) approach a la Newman-Penrose formalism. We then generalize this result to pp-wave-like higher-spin solutions of chiral higher-spin gravity (HSGRA) and show that linear solutions are, remarkably, also the solutions of the full non-linear system of chiral-FDA. Our results show that massless chiral higher-spin gauge fields can propagate on any Petrov type-N pp-wave background despite the fact that chiral HSGRA does not have the standard Einstein-Hilbert term in its action

**Zeit:** Dienstag, 10.10.2023, 14.00 h

**Ort:** Seminar-Raum DB gelb 03 - TU Wien, Wiedner Hauptstraße 8-10

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