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**Fakultät für Mathematik**  
Oskar-Morgenstern-Platz 1  
A-1090 Vienna  
Austria

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## ONE WORLD OPTIMIZATION SEMINAR

June 28<sup>th</sup> 2021 @ 15:30 CEST (Central European Summer Time)

**HEINZ H. BAUSCHKE**

(University of British Columbia Okanagan)

### **Compositions of Projection Mappings: Fixed Point Sets and Difference Vectors**

**Abstract.** Projection operators and associated projection algorithms are fundamental building blocks in fixed point theory and optimization. In this talk, I will survey recent results on the displacement mapping of the right-shift operator and sketch a new application deepening our understanding of the geometry of the fixed point set of the composition of projection operators in Hilbert space.

Talk based on joint works with Salha Alwadani, Julian Revalski, and Shawn Wang.

*The link of the zoom-room of the meeting and the corresponding password will be announced the day before the talk on the mailing list of the seminar, to which one can subscribe on <https://owos.univie.ac.at>.*