## Nijenhuis operators in dimensions 2 and 3:

## Towards a classification of gl-regular operators

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The aim of this talk is to give a brief introduction to Nijenhuis operators. In the first part of the talk, I will give historical motivation about the study of such operators, and then I will introduce the basic concepts about Nijenhuis operators, gl-regularity and the fundamental ideas of the classification in dimension 2. In the second part, we will describe the first steps/examples toward the classification of gl-regular Nijenhuis operators in dimension 3.

This is a joint work with D. Akpan (Friedrich-Schiller-Universität Jena) and A.V. Bolsinov (Loughborough University).