

The seminar on differential geometry will continue with this lecture:

**May 31, 10am, online on MS Teams and the seminar room on the second floor**

Join via this [LINK](#).

**Marcus Dafinger** (University of Jena):

**On formal calculus of variations, Cartan formula and Noether's theorem**

Abstract:

We give an introductory talk on the formal calculus of variations. Concepts from differential geometry, like Lie-derivative, exterior derivative and Cartan formula will be related to first variation, Helmholtz map and a kind of related Cartan formula. With the help of these operations we then formulate Noether's theorem and present some results on the so-called Takens' problem.