

## *Introduction to Tensor Algebra in Continuum Mechanics*

**Prof. Øyvind Andreassen**

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**Thu. Oct 31** 13.00 - 16.00 (Datalab 1130, Høyteknologis. d. blokk)

**Fri. Nov 1** 13.00 - 16.00 (Konferanserom B, floor 3, VilVite)



During this 2-days seminar, professor **Øyvind Andreassen** (FFI / UNIK) will present an introduction to **tensor algebra**. The seminar will cover both the basic concepts of tensor calculus and more advanced topics, such as the differentiation of tensors and the Ricci tensor.

Participants are encouraged to check out the following references prior to the seminar:

- [1] J.H. Heinbockel: **Introduction to tensor calculus and continuum mechanics**. Parts 1.1 to 1.4.
- [2] D. Lovelock, H. Rund: **Tensors, differential forms and variational principles**. Ch. 1, 2 and 3.
- [3] Øyvind Andreassen's slides on Tensor Algebra and Continuum Mechanics.

The books are freely available online, while the slides can be obtained by writing an email to [andrea.brambilla@uib.no](mailto:andrea.brambilla@uib.no)