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# Contact structures

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October 13, 2021 - 10h30

## Abstact

The roots of contact geometry go back to 1872, when Sophus Lie introduced the notion of contact transformations to solve systems of differential equations. It was then a century before existence and classification results were established, first in dimension 3 by Y. Eliashberg in 1989, then in all dimensions with M. Borman And E. Murphy in 2015. We will therefore see why Vladimir Arnold affirmed in 1989 : “Contact geometry is all geometry”.