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The foliated topology and higher differential Galois theory

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The foliated topology is a direct analog of the étale topology in the category of schematic foliations. In the same way that étale topology is related to Galois theory, the foliated topology is related to differential Galois theory. However, in the latter context, a new phenomenon appears: differential fields tend to have higher differential Galois groups. I will report on some computations of higher differential Galois groups and, if time permits, I will describe a interesting open question.

Orateur: AYOUB, Joseph