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## Birch and Swinnerton-Dyer Formula for modular forms of arbitrary weight in the cases of analytic ranks 0 and 1

*mardi 9 juillet 2019 11:00 (1 heure)*

In this talk, I will report on recent results on the computation of the  $p$ -part of the leading term of the  $L$ -function of a modular form of arbitrary weight at the central point in the cases when the order of vanishing is at most one. Unlike the classical case of weight 2 modular forms, qualitatively different arguments are needed in the higher-weight case. After explaining the difference, I will indicate how one can use level-raising and (non-ordinary)  $p$ -adic deformations together with some of the arguments in weight 2 to obtain results in the case of general weights.

This is joint work with Chris Skinner and Xin Wan.

### Summary

**Orateur:** JETCHEV, Dimitar (EPFL)

**Classification de Session:** Galois representations and modular forms