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Sunsuke YAMANA. On central derivatives of (twisted) triple product p-adic L-functions.

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Abstract: We will construct twisted triple product p-adic L-functions and discuss its trivial or non-trivial zeros at the center of the functional equation.

In the split and +1 sign case we will determine the trivial zeros of cyclotomic p-adic L-functions associated to three ordinary elliptic curves and identify the double or triple derivatives of the p-adic L-function with the product of the algebraic part of central L-values and suitable L-invariants.

If time permits, we will formulate the p-adic Gross-Zagier formula in the -1 sign case.

This is a joint work with Ming-Lun Hsieh.