1139-11-436 Henri R Darmon* (henri.darmon@mcgill.ca) and Jan Vonk. Values of meromorphic cocycles and fourier coefficients of p-adic modular forms.

Recently the authors made a numerical study of the values at "real multiplication points" of certain rigid meromorphic cocycles on the Drinfeld upper-half plane, conjecturing that these values generate class fields of real quadratic fields. We explain how they can be expressed as the fourier coefficients of certain p-adic modular forms, and how this leads to evidence for their algebraicity, following an old strategy of Siegel which will be recalled. (Received February 18, 2018)