

1131-11-181 **Michael H Mertens***, Mathematisches Institut, der Universität zu Köln, Weyertal 86-90, 50931
Köln, Germany. *Mixed mock modular forms are vector-valued modular forms.* Preliminary report.

In this talk we investigate vector-valued modular forms of certain arithmetic types which we introduce and show that mock modular forms and mixed mock modular forms as well as second order modular forms as introduced by Goldfeld can be interpreted as components of such forms, therefore providing a common framework for these so far pretty much independent types of modular objects.

This is joint work in progress with M. Westerholt-Raum. (Received July 14, 2017)