ON VECTOR-VALUED SIEGEL MODULAR FORMS MODULO p

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ABSTRACT. The notion of modular forms mod p can be generalized to the vector valued case in an obvious way. Some properties (and some proofs) still work in this case, but others do not. In particular, level-lowering from higher p-power level leads to congruences between modular forms with different representation spaces and to the notion of weak modular form mod p (joint work with S. Nagaoka).