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Title:	On the reduction modulo p of certain modular p-adic Galois representations
Authors:	Ganguli, Abhik (/jspui/browse?type=author&value=Ganguli%2C+Abhik)
Keywords:	Galois representations Modular forms Hilbert modular forms Modular Galois representations
Issue Date:	2017
Publisher:	Elsevier
Citation:	Journal of Number Theory, 172
Abstract:	We determine the possible Serre weights associated to certain Hilbert modular forms when the rational prime p is totally ramified in the totally real field F. Our weight lowering method for arbitrarily large weight is applicable when the slope is sufficiently small, enabling us to compute the mod p reduction at inertia from the known results in the small weight range. In the case of elliptic modular forms (and for certain Hilbert modular forms in the p totally split case) we obtain a unique mod p reduction when the slope is in .
URI:	https://www.sciencedirect.com/science/article/pii/S0022314X16302372 (https://www.sciencedirect.com/science/article/pii/S0022314X16302372) http://hdl.handle.net/123456789/2635 (http://hdl.handle.net/123456789/2635)
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