



CORRIGENDUM

LIFTING TORSION GALOIS REPRESENTATIONS – CORRIGENDUM

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The authors would like to make the following corrections to their originally published article ‘Lifting torsion Galois representations’ [1].

- Page 1: At the end of the first paragraph of the introduction add: ‘It is now known that all representations $\bar{\rho}$ of S -type are modular, i.e., there is a newform f of weight $k \geq 2$ and level $N \geq 1$, and an embedding of $\overline{\mathbb{Q}} \hookrightarrow \overline{\mathbb{Q}_p}$ such that the reduction of an integral model of the Galois representation $\rho_{f,t}$ associated to f is isomorphic to $\bar{\rho}$.’
- Page 2, line 9: In Theorem 1, suppress the word ‘modular’.
- Page 2, line 9: Replace the phrase ‘...usually finite flat complete intersections...’ by ‘...usually *reduced* finite flat complete intersections...’
- Page 2, line 8: Replace the phrase ‘...a monogenic finite flat complete intersection...’ by ‘...a monogenic *reduced* finite flat complete intersection...’.
- Page 2, line 5: In Theorem 3, replace ‘Let $g(U) \in W(\mathbb{F}_{p^f})[U]$ be a distinguished polynomial.’ by ‘Let $g(U) \in W(\mathbb{F}_{p^f})[U]$ be a distinguished polynomial (of degree ≥ 1) with *distinct* roots.’
- Page 13, line 11: In Theorem 17, suppress the word ‘modular’.
- Page 32, line 6: In Corollary 32, replace ‘Let $g(U) \in W(\mathbb{F}_{p^f})[U]$ be a distinguished polynomial of degree e .’ by ‘Let $g(U) \in W(\mathbb{F}_{p^f})[U]$ be a distinguished polynomial (of degree ≥ 1) with *distinct* roots.’

References

- [1] C. Khare and R. Ramakrishna, ‘Lifting torsion Galois representations’, *Forum Math. Sigma* **3** (2015), e14, doi:10.1017/fms.2015.17.