## CORRECTION

To: Allan L. Edmonds, Stable existence of finite group actions on manifolds, 41 (1974), 349-352.

John P. Alexander has pointed out that the theorem stated in my note [2] is false without considerably more restrictive hypotheses. In particular one can show that any  $\mathbf{Z}_n$  action on a finite complex homotopy equivalent to

 $\mathbf{HP}^2 \ \# \ \mathbf{HP}^2 \ \# \ S^3 \times S^5 \ \# \ S^3 \times S^5, \qquad p \equiv 3 \pmod{4},$ 

must have a fixed point. See [1].

The fault lies with Proposition 2. Proposition 1, its corollary, and Proposition 3 are true as stated. The outlined proof of Proposition 2, however, requires some stringent extra hypotheses on the space Y and the chain complex  $D_*$ . For example, it suffices to assume in addition that X is a finite (n-2)-connected, *n*-dimensional CW complex  $(n \geq 3)$ —up to homotopy a wedge of (n - 1)spheres with some *n*-cells attached—and that the chain complex  $D_*$  is also *n*-dimensional. Then one knows that  $\pi_k(X) \to H_k(X)$  is an isomorphism for k < n and an epimorphism for k = n. This information is needed in order to construct the CW complex Y equivariantly and simultaneously extend the map f.

The point of [2] was to attempt to replace a given finite complex by a homotopically equivalent finite complex which supports a free  $\mathbb{Z}_p$  action. The results of [2] together with the above remarks then show that a finite (n-2)-connected, *n*-dimensional CW complex  $(n \geq 3)$  with Euler characteristic zero and no p-torsion in its homology is homotopically equivalent to a finite CW complex with a free  $\mathbb{Z}_p$ action.

Then the theorem given in [2] holds as stated for manifolds (generally having boundary, however) which in addition have the homotopy type of an (n - 2)-connected, *n*-dimensional CW complex.

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## References

- 1. J. P. ALEXANDER AND G. C. HAMRICK, Periodic maps on Poincaré duality spaces, preprint.
- 2. A. L. EDMONDS, Stable existence of finite group actions on manifolds, Duke Math. J. 41(1974), 349-352.

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