## REFERENCES

1. S. Albeverio and R. Høegh-Krohn, *The energy representation of Sobolev-Lie groups* (preprint).

2. H. Bass, *Algebraic K-theory*, Benjamin, New York, 1968.

3. R. C. Busby and H. A. Smith, *Representations of twisted group algebras*, Trans. Amer. Math. Soc. **149** (1970), 503–537.

4. N. Dang Ngoc, *Produits croisés restreints et extensions de groupes* (preprint).

5. P. C. Deliyannis, *Holomorphic imprimitivities*, Proc. Amer. Math. Soc. **16** (1965), 228–233.

6. S. Doplicher, D. Kastler and D. Robinson, *Covariance algebras in field theory and statistical mechanics*, Comm. Math. Phys. **3** (1966), 1–28.

7. J. M. G. Fell, *An extension of Mackey's method to Banach *-algebraic bundles*, Mem. Amer. Math. Soc. No. 90 (1969).

8. G. Frobenius, *Uber Relationen Zwischen den Charakteren einer Gruppe un denen ihrer Untergruppen*, Sitzber. Preuss. Akad. Wiss. **1898**, 501–515.

9. I. M. Gelfand, M. I. Graev and A. M. Versik, *Representations of the group of smooth mapping of a manifold X into a compact Lie group*, Compositio Math. **35** (1977), 299–334.

10. G. A. Goldin and D. H. Sharp, *Lie algebras of local currents and their representations*, Group Representations in Math. and Phys. (Battelle Seattle 1969 Rencontres), Lecture Notes in Physics, vol. 6, Springer, Berlin, 1970, pp. 300–311.

11. P. Green, *The local structure of twisted covariance algebras* (preprint).

12. A. Guichardet, *Représentations de $G^X$ selon Gelfand et Delorme*, Seminaire Bourbaki 1975/76, no. 486.

13. D. G. Higman, *Induced and produced modules*, Canad. J. Math. **7** (1955), 490–508.

14. R. C. Ismagilov, *On the unitary representations of the group of diffeomorphisms of the space* $\mathbf{R}^n$, $n \geqslant 2$, Functional Anal. Appl. **9** (1975), 71–72.

15. A. A. Kirillov, *Representations of some infinite-dimensional Lie groups*, Vestnik Moskov. Univ. Ser. I Mat. Meh. **29** (1974), 75–83.

16. H. Leptin, *Darstellungen verallgemeinerter $L^1$-Algebren*. II, Lectures on operator algebras, Vol. II, Lecture Notes in Math., vol. 247, Springer-Verlag, Berlin and New York, 1972, pp. 251–307.

17. R. Lipsman, *Group representations*, Lecture Notes in Math., vol. 388, Springer-Verlag, Berlin and New York, 1974.

18. G. W. Mackey, *Imprimitivity for representations of locally compact groups*. I, Proc. Nat. Acad. Sci. U.S.A. **35** (1949), 537–545.

19. _____, *Induced representations of locally compact groups*. I, Ann. of Math. (2) **55** (1952), 101–139.

20. _____, *Unitary representations of group extensions*. I, Acta. Math. **99** (1958), 265–311.

21. K. Morita, *Duality for modules and its applications to the theory of rings with minimum condition*, Sci. Rep. Tokyo Kyoiku Daigaku Sect. A **6** (1958), 83–142.

22. L. Pukanszky, *Characters of connected Lie groups*, Acta Math. **133** (1974), 81–137.

23. M. A. Rieffel, *Induced representations of $C^*$-algebras*, Advances in Math. **13** (1974), 176–257.

24. _____, *Induced representations of rings*, Canad. J. Math. **27** (1975), 261–270.

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*Topological algebras*, by E. Beckenstein, L. Narici, and C. Suffel, North-Holland, Amsterdam, New York, Oxford, 1977, xii + 370 pp., $24.50.

An algebra, in the present context, is an associative linear algebra over a field $K$, and a topological algebra is such an algebra with a suitably related topological or quasi-topological structure. This statement requires, of course,