REMARK TO MY PAPER: INTRODUCTION TO VON NEUMANN ALGEBRAS AND CONTINUOUS GEOMETRY

by Israel Halperin

Let $\mathcal R$ be a factor, let $\mathcal L$ be its projection geometry, let x be a non-zero vector and let M be the least element in $\mathcal L$ which contains x.

Then, as Kaplansky observed ten years ago in [2, page 471], M cannot contain non-countable orthogonal non-zero elements of \mathcal{Z} (this countability property of M was also pointed out to me by Dr. Donald Bures).

It follows that every type III factor is of type III $(\%_{0}, b)$ for some $b \ge \%_{0}$.

Thus, in [1], the footnote 12 and the third paragraph on page 278 should be now deleted.

REFERENCES

- Israel Halperin, <u>Introduction to von Neumann algebras and continuous geometry</u>, Canadian Mathematical Bulletin, vol. 3 (1960), 273-288.
- 2. Irving Kaplansky, Algebras of type I, Annals of Mathematics, Vol. 56 (1952), pp. 460-472.

Queen's University