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Errata to the article "Topologies on quantum logics induced by measures"

*Mathematica Slovaca*, Vol. 42 (1992), No. 2, 247

Persistent URL: <http://dml.cz/dmlcz/136552>

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ERRATA TO THE ARTICLE  
“TOPOLOGIES ON QUANTUM LOGICS  
INDUCED BY MEASURES”

VLADIMÍR PALKO

In the proof of Theorem 4.2 in [1], there was used a false assertion that, if  $M$ ,  $S$  are closed subspaces of a Hilbert space, then  $P^M(S)$  is also closed ( $P^M$  denotes the orthogonal projector corresponding to  $M$ ). This mistake does not influence the validity of this theorem. It demands only some small changes in the proof.

In step I we must consider  $\overline{P^M(S(T_\mu))} = M$  instead of  $P^M(S(T_\mu)) = M$ . The sequence  $\{v_k\}$  can be defined as an arbitrary complete orthonormal system in  $M$  such that  $v_k \in P^M(S(T_\mu))$ ,  $k = 1, 2, \dots$ . The assumption  $\mu(\{v_k\}) > s_k - \frac{1}{k}$  is not necessary and it may be omitted.

In step II we must again consider the closure  $\overline{P^M(S(T_\mu))}$  instead of  $P^M(S(T_\mu))$  everywhere where we used the wrong assumption that  $P^M(S(T_\mu))$  is closed. We define  $N = \overline{P^M(S(T_\mu))}$  and then we obtain  $N = \overline{P^N(S(T_\mu))}$ .

**Acknowledgement.** I thank Dr. Sylvia Pulmannová and Dr. Michal Zajac for their helpful advice.

REFERENCES

- [1] PALKO, V: *Topologies on quantum logics induced by measures*, Math. Slovaca 39 (1989), 175–189.

Received August 17, 1990

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