Erratum

## Classical Projections of Quantum Mechanics and the Limit $\hbar \to 0$

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In the work (Polakovič, 2001) there was proved Theorem 3. This theorem is correct. But it wasn't recognized by the author that it can have a nicer (but equivalent) formulation given here.

**Theorem 3'.** Let x(t) have the mentioned meaning where  $t \in \langle 0, T + \varepsilon \rangle$  for some  $T > 0, \epsilon > 0$ , let  $x(0) = x_0$ . Let  $x_{\lambda}(t)$  have also the mentioned meaning for  $\lambda > 0$  sufficiently small,  $x_{\lambda}(0) = x_0$ . Then there exists  $\lambda_0 > 0$  such that for  $0 < \lambda < \lambda_0$  the solution  $x_{\lambda}(t)$  is defined on  $\langle 0, T \rangle$  and the dynamics  $x_{\lambda}(t)$  uniformly converges to x(t) on  $\langle 0, T \rangle$  for  $\lambda \to 0$ .

So now it is clear that the given type of convergence is really the uniform covergence on compact intervals in time. In the paper there is a remark that the given type of convergence is weaker than this uniform convergence. This remark is, of course, wrong.

## REFERENCES

Polakovič, M. (2001). Classical projections of quantum mechanics as  $\hbar \to 0$ . International Journal of Theoretical Physics **40**(3), 755–765.