*Erratum***Large deviation analysis of the single server queue
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Certain corrections are needed in this paper concerning the definition and properties of the weak topology on $\mathcal{V}$. Instead of characterising it in terms of converging sequences as on p. 7, one should define the weak topology as the coarsest topology for which the evaluations $f \rightarrow \int_0^\infty h(t) df(t)$, $f \in \mathcal{V}$, are continuous for all continuous $h(t)$ of compact support. With this topology, $\mathcal{V}$ is a Tihonov, i.e., completely regular, topological space, however it is not metrisable as is erroneously claimed at the beginning of p. 8 which follows by Theorem 17 in Dudley [1]. Hence, the topology induced on $\mathcal{V}$ by the metric $\rho_{\mathcal{V}}$ introduced in the appendix is different from the weak topology. On the other hand, Dudley's Theorem 18 implies that $\rho_{\mathcal{V}}$ metrizes the weak topology on $\mathcal{V}^+$ and $\mathcal{V}_1^+$. Therefore, in part 1 of Theorem A.1 one should change $\mathcal{V}$ to $\mathcal{V}^+$ which is enough for the applications in the paper. It is also interesting to note that the assertion of Theorem 1.1 holds for both the weak topology (as in the paper) and the topology induced by $\rho_{\mathcal{V}}$. Finally, the remark preceding the statement of Theorem 1.1 is erroneous, it is correct with $\mathcal{V}$ replaced by either $\mathcal{V}^+$ or $\mathcal{V}_1^+$.

Reference

- [1] R.M. Dudley, Convergence of Baire measures, *Studia Mathematica* 27 (1966) 251–268.