On the paper "Limit theorems for forward and backward processes..."

by M.G. Chebunin and A.P. Kovalevskii

The authors study classical infinite urn schemes and provide statistical tests based on the proven FCLT. I can recommend the paper for publication in SEMR provided minor corrections I indicate below. I am sure that the authors will be able to do this without my further intervention.

1. Page 145. Bottom after (7). It looks the references to formulas (6) and (7) are interchanged. Please, check.
2. 145_3 uniform metric (not plural, metrics). The same in the formulation of Theorem 1.
3. 146^1: particular case
4. 145 Theorem 1: $K(s,t)$ is given by
5. 147, just after the proof of Th. 3. convergers to θ at rate
6. 148^5 For the second statement, let (comma is missing)
7. 148 just after the proof of Th. 4. By Theorem 1 (remove 'the')
8. 148 Corr 1: is given by THE covariance function
9. 149^1 the null hypothesis
10. 149^3 is the value of
11. 149^4 use either 'Smirnov's formula' or 'the Smirnov formula'(if speaking about a type of formula `à la'` Smirnov, not necessarily the exact form as in his paper)
12. 149^{10} of the kernel
13. 149_4 Let us demonstrate it
14. 150^8 uniformly in $t \in [0,1]$
15. 150^9 Change 'Really' to 'Indeed' or 'Then'
16. 150_{10} uniformly in... we have a joint weak
17. 151^3 I suggest the following edit:
approach described in [...] with λ_k replaced by the eigenvalues $\widehat{\lambda_k}$ of the kernel in Smirnov's formula
18. 151^6 THE number of balls

19. 151^{8} number $\Pi(n)$ of balls. Acording to THE well-known

20. 151^{10} intensities p_i WHICH are

21. 151 bottom: Step 2: Analogously to THE proof[...] in Dutko (1989), (comma)[...] THE triangular array [...] THE Lindeberg condition (see my comment on 'Smirnov's' above: here we do not assume that Lindeberg has exactly the same form of the condition, so we do not use 'Lindeberg's condition'!)

22. 152 Step 3: THE relative compactness, Step 4: THE proof