with k such that

$$\left\| x_0 - \left\{ \sum_{n=1}^{q_m(k)} y_n^*(x_0) y_n + \sum_{n=q_m(k)+1}^{q(m_k)} y_{\pi(n)}^*(x_0) y_{\pi(n)} \right\} \right\| < \varepsilon'_{m(k)}.$$

Then we continue the proof of Theorem I, starting with line 7 of page 93 up to and including (3.19). Following (3.19) we continue with the following part, which concludes the proof of Theorem 1:

“On the other hand, again by (2.17) and (3.10)', there exists $j'(m'(k))$ with $1 \leq j'(m'(k)) \leq R_{b(m'(k))}$, such that we have (3.10)'' again, with m' replaced by $m'(k)$. Therefore, if $\{\pi(n)\}_{n=q_{m'(k)}+1}^{q_{m'(k)}+1}$ is any permutation of $\{n\}_{n=q_{m'(k)}+1}^{q_{m'(k)}+1}$ such that $\{y_{\pi(n)}\}_{n=q_{m'(k)}+1}^{q(m'(k))} = \{u_{b(m'(k)), j'(m'(k)), n}\}_{n=1}^{q(m'(k)) - q_{m'(k)}}$, it again follows that

$$\left\| x_0 - \left\{ \sum_{n=1}^{q_{m'(k)}} y_n^*(x_0) y_n + \sum_{n=q_{m'(k)}+1}^{q(m'(k))} y_{\pi(n)}^*(x_0) y_{\pi(n)} \right\} \right\| < \varepsilon'_{m'(k)} + \frac{1}{2^{b(m'(k))}}.$$

Setting $p(m) = q_m$ for each m , this completes the proof of Theorem 1.

Reference

- [T] P. Terenzi, *A positive answer to the basis problem*, Israel Journal of Mathematics **104** (1998), 51–124

CORRECTIONS TO THE PAPER

“A POSITIVE ANSWER TO THE BASIS PROBLEM”

1. Page 56 bottom line: replace $s(m)$ by $r_{s(m)}$.
2. Page 62 line 8: replace “ $\{g_n\}$ basic” by “ $\{g_n\}$ of X^* such that $\{y_n, f_n\}$ and $\{y_n, g_n\}$ are biorthogonal, with $\{f_n\}$ bounded and $\{g_n\}$ basic”.
3. Page 64 lines 20 and 22: replace “ $(b) \Leftrightarrow (c)$ ” and “ $(d) \Leftrightarrow (e)$ ” by “ $(b) \Rightarrow (c)$ ” and “ $(d) \Leftarrow (e)$ ” respectively.
4. Page 65 line 2: replace “ $(b) \Rightarrow (d)$ ” by “ $(b) \Leftrightarrow (d)$ ”.
5. Page 66 line 16: replace “ $\varepsilon' -$ ” by “ $\varepsilon' -$ ”.
6. Page 67 line 19: replace “ M ” by “ m ”.
7. Page 68 line 3: replace “ T ” by “ $\perp$ ”.
8. Page 72 line 8: replace “ $q(1, q)$ ” by “ $g(1, q)$ ”.
9. Page 73 line 24: replace “ $|a_{n'_k} l|$ ” by “ $|a_{n'_k}|$ ”.
10. Page 76 line 16: replace “ $2(1 + \varepsilon') = 2\varepsilon''$ ” by “ $2(1 + \varepsilon') + 2\varepsilon''$ ”.

11. Page 77 line 1: replace " $2(+2\varepsilon')$ " by " $2(1+2\varepsilon')$ ".
12. Page 78 line 10: replace " $V + V_k + V_{0,k}$ " by " $V = V_k + V_{0,k}$ ".
13. Page 79 line 23: replace " t_2^T " by " $t_2^{T'}$ ".
14. Page 81 line 20 and Page 82 line 7: replace " $x_{m,n}^*(x_0)x_{m,n}^*$ "; by " $x_{m,n}^*(x_0)x_{m,n}$ ".
15. Page 83 line 23: replace " $v'_{m,n}\}_{k=1}^{P'_m}$ " by " $v'_{m,k}\}_{k=1}^{P'_m}$ ".
16. Page 84 line 6: replace the right hand side inequality by $P_m - P''_m \geq 4^{\max\{\|v'^*_{m,n}\|: 1 \leq n \leq P'_m\}}$.
17. Page 85 line 6: put " $\dots x_n\}_{n=\dots 1}^{r_{t(m,i)}} \dots$ " instead of " $\dots x_n\}_{n=\dots 1}^{t_{t(m,i)}} \dots$ ".
18. Page 86 lines 9 and 11: " $S_{m,i}^{k/2}$ " by " $k/S_{m,i}^2$ ".
19. Page 87 line 28: " $\{y'^*_{m,i,0,n}\}$ " instead of " $\{iy'^*_{m,i,0,n}\}$ ".
20. Page 90 line 4: put " $\dots \|/\{\dots$ " instead of " $\dots \|\{\dots$ ".
21. Page 90 line 5: put " $2\|x_0 - x_{0,m}\| +$ " to the left of the fraction (instead of in the numerator).
22. Page 95 line 15: put " $+y + Y_0 \dots$ " instead of " $+y|Y_0 \dots$ ".
23. Page 95 line 17: put " $\dots \frac{9}{10}\|x \dots$ " instead of " $\dots \frac{9}{10}\|x \dots$ ".
24. Page 105 line 15: put " $F_{m,j(m,0),n}$ " instead of " $F_{m,j}(m,0,n)$ ".
25. Page 105 line 18: put " T'_m " instead of " $T'_{m'}$ ".
26. Page 107 line 2: replace " $Q_{0,n}$ " by " $Q_{0,m}$ ".
27. Page 109 lines 4 and 7: move the symbol (4.15) from line 4 to line 7 and add " $\|x' - A_1\| < \|x'\|\{1 + 2r_{t(s(m))}H\}$ " in an intermediate line.
28. Page 116 line 19: put " $\dots\}_{n=r''_{m(t'),i(t')-1}}^{\dots}$ " instead of " $\dots\}_{n=r''_{m(t'),i(t')-1}}^{\dots}$ ".
29. Page 117 line 15: replace "(ii)" by "(ii)".
30. Page 118 line 16: put " $\dots y_n^*(x_0)y_n + \dots$ " instead of " $\dots |y_n^*(x_0)y_n + \dots$ ".