## Corrigendum

# Elliptic equations in $\boldsymbol{R}^{\mathbf{2}}$ with nonlinearities in the critical growth range 

D.G. de Figueiredo, O.H. Miyagaki, B. Ruf

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In hypothesis (H6) of Theorem 1.4 the $\lambda_{k}$ has to be replaced by $\lambda_{k}+\sigma$, with $\sigma>0$. In the statements of Thms. 1.3 and 1.4 the lower bounds for $\beta$ have to be replaced by $\frac{2}{\alpha_{0} d^{2}}$ and $\frac{4}{\alpha_{0} d^{2}} e^{K / \sigma}$, respectively, where $K=K\left(\alpha_{0}, \lambda_{k}\right)$.

In the inequalities (4.5) and (5.4) the last integrals in fact go to $\pi d^{2}$. So the last inequality of the proof of Thm. 1.3 is $4 \pi / \alpha_{0} \geq(\beta-\epsilon) d^{2} \pi M_{0}$. One proves that $M_{0}=2$.

The first integral in (5.4) is split into integrals over $B_{d / n}$ and $B_{d} \backslash B_{d / n}$. The latter integral is estimated from below by $\pi d^{2} \hat{M}$ as in the paper; one calculates that $\hat{M}=1$. To estimate the integral over $B_{d / n}$ one uses the following estimates on $t_{n}$ and $v_{n}: t_{n}^{2} \leq 4 \pi / \alpha_{0}+c\left\|v_{n}\right\| / \sqrt{\log n},\left\|v_{n}\right\| \leq c /(\sigma \sqrt{\log n})$, and $t_{n}^{2} \geq$ $4 \pi / \alpha_{0}-c /(\sigma \log n)$ which are obtained from (5.1) and (5.2). Then the last inequality in the proof of Theorem 1.4 becomes $4 \pi / \alpha_{0} \geq(\beta-\epsilon) d^{2} \pi e^{-K / \sigma}$, which yields a contradiction if $\beta$ satisfies the above condition.

