Correction

Correction to: Singularity and blow-up estimates via Liouville-type theorems for Hardy–Hénon parabolic equations

QUOC HUNG PHAN

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The original version of this article unfortunately contained two typographical mistakes.

In Theorem 1.6, the assumption $a < 0$ has been forgotten. The statement of Theorem 1.6 should thus be understood with this additional assumption. We point out that it is needed in the proof, in the cases A_3 (p. 431) and B_3 (p. 432), in order to have that the subsequence w_k converges to w in whole space $\mathbb{R}^N \times \mathbb{R}$. More precisely, the domain of definition of w_k in the case A_3 (and similarly in the case B_3) is defined by

$$\tilde{D}_k = \left\{ (y, s) \in \mathbb{R}^N \times \mathbb{R} : (x_k + \lambda_k y, t_k + \lambda_k^2 s) \in \tilde{B}_k \right\},$$

where $\tilde{B}_k = \{(x, t) \in \mathbb{R}^N \times \mathbb{R} : |x - x_k| + |t - t_k|^{1/2} \leq kM_k^{-1}\}$, see Eq. (42) in p. 430. Or equivalently,

$$\tilde{D}_k = \left\{ (y, s) \in \mathbb{R}^N \times \mathbb{R} : |y| + |s|^{1/2} \leq kM_k^{-1}\lambda_k^{-1} \right\}.$$

The assumption $a < 0$ is needed in this case to guarantee that the scaling domain $\tilde{D}_k$ converges to $\mathbb{R}^N \times \mathbb{R}$ as $k \rightarrow \infty$.

The second typographical mistake is in the formula p. 431, L-7. The term λ_k^{1-1/m_k} should be replaced by $\lambda_k^{1-1/m_k} y$.

*Quoc Hung Phan
Laboratoire Analyse, Géométrie et
Applications, UMR 7539 CNRS,
Université Paris 13,
93430 Villetaneuse,
France
E-mail: phanqh@math.univ-paris13.fr*