

## Addendum to "A multiplicity result for nonlocal problems involving nonlinearities with bounded primitive"

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In this addendum, I wish to point out two changes that I expected to do over the galley proofs of [1] which, to the contrary, never reached me.

Namely, in Theorem 1.6, accordingly to Proposition 1.4, the definition of  $\hat{\theta}$  has to be changed as follows:

$$\hat{\theta} = \inf_{x \in J^{-1}(\inf_X J, \sup_X J \setminus \{0\})} \frac{\psi(x) - \eta(x)}{\varphi(J(x))}.$$

When  $\varphi$  can be extended by continuity to  $[-\text{osc}_X J, \text{osc}_X J]$ , then no change is needed. That is to say, the equality

$$\inf_{x \in J^{-1}(\inf_X J, \sup_X J \setminus \{0\})} \frac{\psi(x) - \eta(x)}{\varphi(J(x))} = \inf_{x \in J^{-1}(\mathbf{R} \setminus \{0\})} \frac{\psi(x) - \eta(x)}{\varphi(J(x))}$$

holds.

In this connection, no change is needed in Theorem 1.7 (where  $\varphi(t) = e^t - t - 1$ ), while in the definition of  $\theta^*$  in Theorem 1.3, the condition  $\int_{\Omega} F(x, u(x)) dx \neq 0$  has to be changed in

$$\int_{\Omega} F(x, u(x)) dx \in ]\alpha_f, \beta_f[ \setminus \{0\}.$$

Finally, in (1.6), the inequality

$$\inf_{x \in X} (\psi(x) - \mu(e^{J(x)} - 1)) < 0$$

has to be replaced by

$$\inf_{x \in X \setminus J^{-1}(0)} (\psi(x) - \mu(e^{J(x)} - 1)) < 0$$

**References**

- [1] Ricceri B., *A multiplicity result for nonlocal problems involving nonlinearities with bounded primitive*, Stud. Univ. Babeş-Bolyai, Math., **55** (2010), 107-114.

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