



Integral part problems derived from a solution of an infimum problem

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Abstract. In this paper, we solve the following two integral part problems:

Find all $r \in \mathbb{R}$ satisfying

$$r^2 = [r]([r] + 1), \quad \text{resp.} \quad r^2 \leq [r]([r] + 1).$$

These problems have been mainly motivated by a solution of an infimum problem of Z. Boros and Á. Száz.

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