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Title: Sequences of algebraic numbers and density modulo 1

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We prove density modulo 1 of the sets of the form

$$\{\mu^m \lambda^n \xi + r_m : m, n \in \mathbb{N}\}$$

and

$$\{\mu^m \lambda^n \xi + r^{m+n} \beta : m, n \in \mathbb{N}\},$$

where λ, μ is a pair of rationally independent real algebraic numbers, satisfying some additional assumptions, $\xi \neq 0, r, \beta \in \mathbb{R}$ and r_m is any sequence of real numbers.

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