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Some Results on the Unitary Analogue of the Lehmer Problem

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Abstract:

Let M be a positive integer with $M \geq 4$, and let φ^* denote the unitary analogue of Euler's totient function φ. Using Grytczuk-Wójtowicz's techniques from the paper [2] we strengthen considerably the lower estimations of the solutions n of the equation $M\varphi^*(n) = n - 1$.

Moreover, we show that the set of positive integers, which do not fulfil this equation for any $M \geq 2$, contains an interesting subset generated by Ramsey's theorem.

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