

New ideas for tabulating Baile-PSW pseudoprimes

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A Baile-PSW pseudoprime is a composite number n that is simultaneously a base-2 Fermat pseudoprime and a Lucas pseudoprime whose discriminant Δ satisfies $(\Delta | n) = -1$. An open question is whether any such number exists. I will discuss a new algorithm for tabulating such pseudoprimes that exploits their divisibility structure.