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The reciprocals of some characteristic 2 "theta series"

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Suppose $l=2m+1$, $m>0$. We introduce m "theta-series", $[1], \dots, [m]$, in $Z/2[[x]]$. It has been conjectured that the n for which the coefficient of x^n in $1/[i]$ is 1 form a set of density 0. This is probably always false, but in certain cases, for n restricted to certain arithmetic progressions, it is true. We prove such zero-density results using the theory of modular forms, and speculate about what may be true in general.

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