Beh := [an] TT (Ham), N20 => 1-10-11.

Dut f be an extractic function such that

A(1) >0. Then its Diell the inverse for exists,

An A(1) = 1 and one to companion

 $f(1) \neq 0$. Here its Direct the answerse to tengths of $f(R+1)(N) = \delta_{N+1}$ and can be computed [Perusanely as $f^{-1}(N) = \begin{cases} f(N) & 1 \\ 1 & 1 \end{cases}$

hemistic: it fis "wice" and well telawed, This figured, oscillatory, and hadtowork wi

encode the fourtoon!

Sp(N) := $\frac{1}{2}$ $f^{+}(\tau)$ $f_{1}(N-T)$ decode the franchim! $f^{-1}(N) = \frac{1}{2}$ $S_{p^{-1}}(\tau)$ $f_{2}^{-}(N-T)$

Properties of the partition functions,: · 4N201 (PEWI)>1 · Pa alternates in sign: SqN(B(N))=(-1)NAM key observation: for any (presumally Convoled) arithmetic f of its invesse fr(N) satisfies: Squ(Sp-1(N)) is constant, or always-11 -> That is, The encoding takes a crazy, Signed, unpredictable for, and Somehow scales it so that its sign is predictable forall sufficiently large N2N>>> No. -> Examples are given in The affected Notebook file. Questions how do we prove This? Are There any reasonable restrictions to Place, or bounds to satisfy, on f so that this property is in fact always tre? Entry, Maxie) > I have pluty of applications to cite if we conquire a proof of this magic! Those.