Calcul

· Calcul de ein:  $\mathcal{M}_{n} = \sum_{n=0}^{N-1} \mathcal{M}_{n} < \mathcal{V}_{m}(D_{n})$  $= \frac{1}{n=0} \frac{$  $Or < Um | T_n > = \frac{\delta m n - \delta m n - 2}{2 - \delta n / 0}$  $= 200 \, \text{Sm}_{10} + 21 \, \frac{\text{Sm}_{11}}{2} + \frac{\text{$ 2 2 Un [ Smm - 2 Smm-2 + Smm-14] = Smo[10-112+=14] + Sm1 [ 1 - 13 + 2 215] + 8m2[ n2 - n4 + 2 m6] + 5 m N-5 - MN-3 + = MN-1) + Sm, N-4[MV-4 - MN-2] + 8m, N.3 [ MN-3 + Sm, N-2[ Mn-2] + ( m / N-1 ( 2)

=)  $u_{m} = \int u_{0} - u_{2} + \frac{1}{2}u_{4} + \frac{1}{2}u_{m+4} + \frac{1}{2}u_{m$ 

en comptant note les varnes hors den un = mm - unt2 t = unt4

· Calade Saun: · Zun (Um (de Dn) = uo [Umlde to] + mi [Umlde ti] + Z MA[ N < Um |Un) - (N-2) < Um |Un-2 > ] = 0 + MI Smr1 + 5 Mn [ n Smrn - (n-2) Smrn-2] = 0 + {m([u(-u3] +25m-2[ 42-44] +36m-3[M3-M5] + (N-3) [NV-3-NN-1] + (N-2) MN-2 + (N-1) MN-1 Soun = m [um - um +2](1-8m-0) WEC O hars donne Bet: Saan = f(rûm) Solum = m [um - um+2] (1-Sm-a)  $\lim_{n \to \infty} \frac{u_n}{2 - \sum_{n \to \infty} u_n} - u_n + 2 + \sum_{n \to \infty} u_n + 4$ En methat à par 0: Drum = m [un-non+2] Mm = mm - Mm+2 + elm+4

= delm - delm+2

m+2

 $M(-1) = 0 \quad \text{on a} \quad D_{n}(-1) = (-1)^{n}$   $M(1) = 0 \quad \text{on a} \quad D_{n}(1) = 1$   $par \quad n = o-out$ 

Da compluse les éguation en N-1 et N-2 par CL.

Ongos sacis:

Déterment de man fait en faire aux dan = - k m