ANLOS (2) B; (x) > O olle x & [], 1] i osigge dollet jako relsimu le=n; B"(x)=12/1/20 Bo(x)=(1-x) =0 mex N 0, Mz N 1 mex w 1 Mz w 0 he (0,n).  $B_{\mu}^{n}(0) = 0$   $B_{\mu}^{n}(1) = 0$ Spronding electione alle X E (0,1)  $\left|\mathcal{B}_{i}^{n}\left(x\right)\right|=0$ store (n) 1-x =0, x =0 (m) Dicting proc(n) x = 1(1-x) = 4-1

1-x = 0, x = 0 (m) Dicting proc(n) x = 0 le-lex-nxtlex=0 elisternimen [x=n] (molisimen) 6) 27 Bi (+)=1  $\sum_{i=0}^{n} B_{i}^{n}(t) = \sum_{i=1}^{n} \binom{n}{i} \times (1-x)^{n-i} = \sum_{i=1}^{n} (1-x)^{n-i} = 1 = 1$ i = 0  $\sum_{i=0}^{n} (i) \times i y^{n-i} = (x+y)^n$ 

ANL-3

ANL-3 (3)  $B_{\mu}^{n}(t) = \binom{n}{u} t^{\mu} (1-t)^{n-\mu}$  $B_{n}^{n}(t) = \binom{n}{n} t^{n} (1-t)^{0} = t^{n}$  $\int_{0}^{n} B_{n-1}(t) = \binom{n}{n-1} + \frac{n-1}{1-t}$ jest ich n+1  $B_1^n(t) = {n \choose 1} t^1 (1-t)^{n-1}$ Bo (t)= (0)+4-t) = (1-t)n  $\alpha_n B_n^n + \alpha_{n-1} B_{n-1} + \dots + \alpha_0 B_0^n = 0$ Wisponia pry + now Wielomien joho webtor - Synthon

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&$ Msporozymiki prug: Easte niclomiany

8 % 59 limono measing 1) &0. ×,=0 => 0,=0  $\times$ )  $\alpha_0 \stackrel{\times}{\chi_2} + \alpha_1 \stackrel{\times}{\eta_2} => \alpha_1 = 0$ ital jest ich n+1 migc twoza boza  $x^{2}$ )  $\alpha_{0} \times_{3}^{*0} + \alpha_{1} y_{3}^{*0} + \alpha_{2} + Z_{3}^{*0} = 0 = > \alpha_{2} = 0$ 

ANC-S 3/ (5)  $P_n(t) = \sum_{i=0}^{n} B_i^n(t) W_i$  04451  $P_n(t) = \binom{n}{i} t^{s_n}(t) W_i \text{ which which } t^{s_n}(t) = \binom{n}{i} t^{s_n}(1-t)^n W_0 + \binom{n}{i} t^{s_n}(1-t)^{n-1} W_1 + ... + \binom{n}{n} t^n (1-t)^n W_n$ Wyaggomy (1-t) hiesly siq de:  $P_n(t) = W_n \binom{n}{n} t^n + (n-t)W_{n-1}(n-t) t^{n-t}(1-t) [W_{n-2}(n-2)t^{n-2}] t^{n-t}$  $+ \ldots + (1-t) \left[ W_{n} \binom{n}{n} + (1-t) W_{n} \binom{n}{n} \right] \cdots$ Czyli Wo = Wo

With = (NAT) With(i+1) t + Wolft Wteoly WH = Pr(t)

Musimy jeszcze umieć policzyć ti linine (prosto i możyć

w bożolej itacj

o t oroz mejerc (n) nogsboi (n)  $\binom{n}{0} = 1, \binom{n}{1} = n, \binom{n}{2} = \frac{n(n-1)}{2!} \binom{n}{3} = \binom{n}{2} \cdot \frac{(n-2)}{3}$  csyli Algorytm: (n,t,WEI)  $\binom{n}{u} = \binom{n}{u-1} \cdot \binom{n-k}{k}$ w= Wo // Wo(6) t° bin = n 11 ob liceria (?). pow:= t // olo li ccenie t'
e := 1-t for (i=1; i in; ++=1) 2 zwóó W=Pn(+) Wo- Wi - bin · pow + woo pow := pow ot bin = (bin o (n-i)) / i+1

 $(P) R_n \neq 1) = \sum_{i=0}^{n} w_i W_i B_i^n(t)$  $0 \le t \le 1$ Wo, W, , W, EE Wo Wi, Wz, ..., wn ER+ 27 w; B; (t) T: due livedage to [0,1] Rn(+) - puntt beslagy Rn(t) =  $\sum_{i=0}^{N} \frac{w_i B_i^n(t)}{\sum_{j=0}^{N} w_j B_j^n(t)} W_i$ Komb. borycentrycene:  $\alpha_0 W_0 + \alpha_1 W_1 + \cdots + \alpha_0 W_n$ golzie  $\sum_{j=0}^{N} \alpha_i = 1$ hombinego bongcentry cara punlitin hortrohych Wo, ..., Wh Cougli and  $\frac{1}{27} = \frac{1}{27} \frac{1}{1} \frac{1}{1}$