Byckwholl Seconday Dold-Kan

- 2 "Seconday" dy cats or stable sociat.
- (D'Pre-primay" integri,

 (D'Primay" ab gps (Doll-Kan as-out)) category

 (D'Seconday" dy cats

© X edu char

(;A)

2) 2 roby howly ul sub in C. Complex Falcin top. setting. "Borel-Man & wapped Felys.

O Preprimay: a= (a0, a1, a2, --) æquice at integers "direct from"

~ cequire of "formul difference"

 $\Delta a = (a_1 - a_0, a_2 - a_1, a_3 - a_2, ---)$

"dirvete denette"

Flante Newton's formula an = 2 (n) (sta)o. "dicueto Taylors familia"

f(x)= 2 xk f(k)(w)

Organize to a correspondence:

Ex Camputy 2 a can tell you whather (Qi) is polynomial: ie,

"An=P(n) polyn of day Ski'

(Amian) terminates for m>k.

[-1)i (1/2) Am-i

[=6]

 $\stackrel{\text{Ex}}{=} (0, -, 0, \frac{1}{k}, 0, -) \xrightarrow{\text{Newal}} (\frac{n}{k})$ $\stackrel{\text{Newal}}{\text{findy}}$

Where

$$C(A_{\circ}) = \frac{A_{n}}{dey}$$

"numbered chars"

N a neve carraction: two steps.

So dealy right stop is
$$C^2 = \mathbb{Z}$$

$$C^2 = \mathbb{Z}^2 - \mathbb{Z}^2 \leftarrow \mathbb{Z}$$

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$$C^3 = \mathbb{Z}^3 \leftarrow \mathbb{Z}^2 \leftarrow \mathbb{Z}$$

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$$C^4 = \mathbb{Z}^3 \leftarrow \mathbb{Z}^2 \leftarrow \mathbb{Z}^2 \leftarrow \mathbb{Z}$$

$$C^4 = \mathbb{Z}^3 \leftarrow \mathbb{Z}^2 \leftarrow \mathbb{Z}^2$$

Pass to ranks: Cut Neword family:

Feather / N(BFN) / a K(B,n).

<u>(4)</u>

2 Securday: dy ats up to Morita equiv	C
Note "Z(-1)'di" dun't mule ceru, sine cont tale deshus of Lictus. dy cars are comiaddite, not additive.	
Fact— not quoted of An, but subobject of An construct DK. ((of C).
The alternative cstrin: $C(A_i)_n = \bigcap_{i=1}^k ter(d_i)$ $(NOT i=0)$	malex we
d=do.	fr dy cut.
Thus New Confocition is an equiliar!	
EX C = 2076-2	

EX C= 7076-2 (0,1) 501-003

lit

$$C(A) := \bigcap_{i=1}^{n} Ker(di)$$

d=6

males are to talk of kul.

e & Ruf(E) 1 ~ 1 1 2 ~ 19

~ "chair captu of da cut" Ch20 (4(47)

C(A)= "cecardy numbers chas"

Searcy new:

[n] - ZHantia)

Cuty

Petry N(Bo) != Hom (Bo).

Ko moul exylis he helve.

- *K(bin) call he alled "Sni! (B)", consider by G. Jases for n-abolar cate
- N(B, +B2/2 S.(f) S-dot rel f.
- · K(B,n) surily hybrarlyne of 2-Segil propoler.

 odd n-Segrespaus

Dydwholl talk soutch work

(i

This indues map

$$\begin{pmatrix}
1 & A_{n-1} & A_{n-1} \\
1 & A_{n-1} & A_{n-1}
\end{pmatrix}$$

$$\begin{pmatrix}
1 & A_{n-1} & A_{n-1} \\
1 & A_{n-1} & A_{n-2}
\end{pmatrix}$$

$$\begin{pmatrix}
1 & A_{n-1} & A_{n-2} \\
1 & A_{n-2} & A_{n-2}
\end{pmatrix}$$

Fun (V D'UD', Catoo) Fun (V D'UD', Cotoo)

Tune map

$$\begin{array}{c} C_n & \xrightarrow{\text{in}} & B_n \\ I & & \text{in} & B_n \\ \end{array}$$

$$\lim_{n \to \infty} C_n & \lim_{n \to \infty} B_n & \dots \end{array}$$

We also have map Bn-Cn-1 because of inclusion

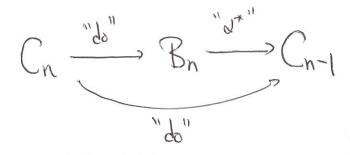
$$\left(\begin{array}{c} \bigcap_{j=1}^{n-1} A_{n-1} \xrightarrow{d_j} A_{n-2} \end{array}\right) \xrightarrow{C} \left(\begin{array}{c} \bigcap_{j=0}^{n-1} A_{n-1} \xrightarrow{d_j} A_{n-2} \end{array}\right)$$

Cato

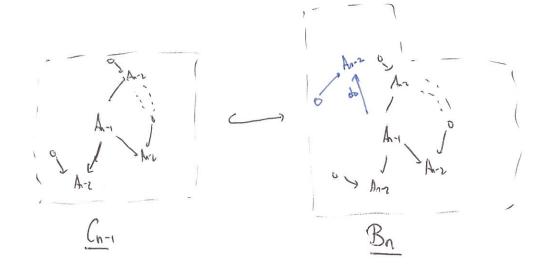
more regardly, $C_{n-1} = \alpha^* B_n$ where $\alpha: (V \Delta' \cup \Delta') \longrightarrow (V \Delta' \cup \Delta')$

In By - Im or Com.

So the map



13 What Toby calls do in the talk. Why does dood ~ 0? Well, cansider that



so by tunal pl popuy, $B_n \simeq P.b. \left(\xrightarrow{C_{n-1}} \xrightarrow{d_0} A_{n-1} \right).$



