LINAG DIO 43.x V. VR/M dim(V)= 1400 n=2 B=(67, 62,..., 6n) C=(c7,..., Cn)... Basen von V B = (6, 1, 62 , ..., 6, 1) (+ (c, 1) ..., c, 1). . . duale Basen 2. B bro C a) \(\forall i \geq 2 : 6; = c; => \forall i \geq 2 : 6; \(\pi = c; \alpha\) \(\lambda \) \(\lambda i \geq 2 : 6; \(\pi = c; \alpha\) \(\lambda i \geq 2 : 6; \(\pi = c; \alpha\) K=R $V=R^2$ $B=(\binom{1}{0},\binom{9}{9})$ $C=(\binom{1}{1},\binom{9}{1})$ $V=(\frac{1}{1})\in V$ $b_2^*(v) = 1$ $c_2^*(v) = 0$ =>] i>2: 6; * + c; * 6) bn=c2nb2=c1n∀i≥3:6;=ci=>b1*=c2*162*=c1*1∀i≥3:6,*=c;* Seive V bel. 5-67+...+ sn. bn = v = +1.01+...++n. Cn wah Da bi=cz 16z=c114;33:6;=c; gill: v=+1.6z++2.6,+...++n.6n Da LK aus einer Basis eindentig folgt S1=+2152=+11 Vi=3:5,=+; b,*(v)=s, b2*(v)=s2 Vi=3:6;*(v)=s; $C_1^*(v) = +_1 = s_2$ $C_2^*(v) = +_2 = s_1$ $\forall i \ge 3$: $c_i^*(v) = +_i = s_i$ => 6, *= c, * 162 *= c, * 1 Vi > 3:6; *= c; * c) {6,,.., 6,3 = {c,,.., c,3 => {6,*,.., 6, *} = {c,,.., c, *3 wals Vi∈ §1,.., n3: b; € {c1,.., cn3 => 6; * e {c, *, ..., c, "} => {6, *, ..., 6, *3 = {c, *, ..., c, *} umgekert genauso d) x b1 = c1 1 7 2:6; = c1 => x. 61 = c1 1 1 7 2:6; * = e; * K = R $V = R^2$ B = ((7), (9)) C = ((8), (9)) x = 2 falsch Seiv= (2). 62*(v)=2 C4*(v)=1 $x \cdot 6, *(v) = 2 \cdot 2 = 4 + 1 = c, *(v)$