<u>mas</u>

Toric varieties

-algebruic torus T = (C\*)

-character ymo T -> (K, m & Zm

t +> t, m - t m

- one-parameter homomorphisms

2": (\* -> T gu & Z'

+ -> (+", -, +")

-> n = N, where n= 229, N= 229

Det. Affine toric variety is an alg. variety V s.t. the torus Tv is Zuriski open cov and the action Tv on itself extends algebraic ally on V TVXV->V.

-ex; ((\*)"; ("; V=V(x3-y2) => V/{o}={(+8,+31)}

-ex°  $\varphi$ :  $C^2 \rightarrow C^{d+1}$   $(5,t) \mapsto 7 (5^d, 5^{d-1}t, ..., t^d)$  Veronese -let  $A = \frac{7}{2} (d, 0), (d-1, 1), ..., (0, d) \frac{7}{2} \leq \frac{7}{2}$   $\Rightarrow \varphi_A : (C^*)^2 \rightarrow C^{d+1}$  $t \mapsto (\chi^{(d,0)}(t), ..., \chi^{(0,d)}(t))$ 

Det CPC 2= \{\frac{2}{2} \lambda u u \lambda u \rangle \rangle \square \text{SC>NR \ NR \square \text{NERM}}

- 2 = { mcMIR ( < m, u) > 0}

- SCPC (strongly CPC), if, equivalently:

1) {0} 15 a face

1) 30 (-2) = 203 111) dim(2) =n (v) Z positive din subspace of 1Rh - RPC (rutional PC), S = N - we need SCRPC-SZ