

BB-form

TEST M,W

$$\sum_{i+j=n} c_{ij} b_{ij}(u)$$

$i+j=n$
↑
degree

BB basis
function

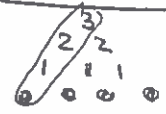
$$b_{ij}(u) := \binom{n!}{i!j!} v^i u^j$$

$$v = 1 - u$$



Grenze

1-variable

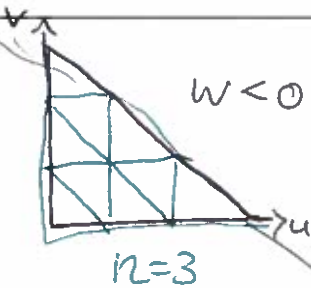


$$\sum_{i+j+k=n} c_{ijk} b_{ijk}(u,v)$$

$$i+j+k=n$$

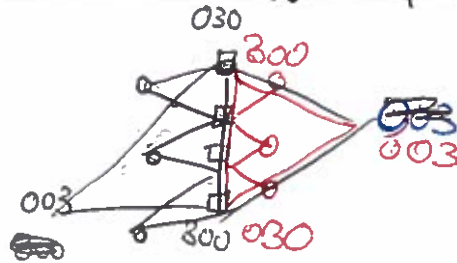
$$b_{ijk}(u,v) := \binom{n!}{i!j!k!} w^i u^j v^k$$

$$w = 1 - u - v$$



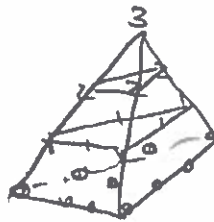
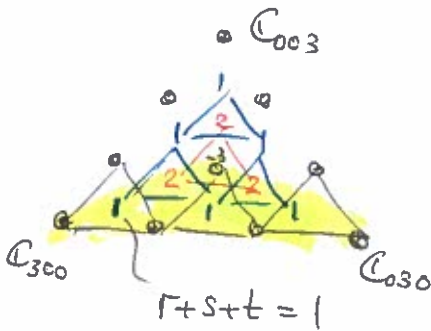
$w < 0$

$n=3$



$\binom{n+2}{2}$ coefficients

= # triples that add to n nonnegative



Oct 23

3 variables



$$\binom{n+3}{3}$$

$$\frac{(n+D)!}{n! D!}$$

= # of coeff's of a polynomial of degree n in D variables