

$D \subset \mathbb{P}^3$ normal quartic $|S_2|$, very general F_2 $K_{\mathbb{P}^3} + 8L_2 - MMP$

$$\rho(x_0, x_1, x_2, x_3) \mapsto (-A_{x_0} - B, A_{x_1}, A_{x_2}, A_{x_3})$$

$\text{E}(\phi) \sim V(A, B)$, $(\mu_{C, \rho}) = (3/4, 1/9)$

LOG CALABI-YAU

ONLINE NOTTINGHAM

1000-10000 mg/m³ of dust in the air.

www.english-test.net

www.english-test.net

LOG CALABI-YAU GEOMETRY AND CREMONA MAPS

ONLINE NOTTINGHAM ALGEBRAIC GEOMETRY SEMINAR

$$\begin{array}{c} \text{PROPOSITION} \\ \text{PROOF} \end{array}$$

METRY SEMINAR

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3-DIMENSIONAL SCENARIO

VOLUME PRESERVING SARKISOV LINKS

Theorem (- 2023)

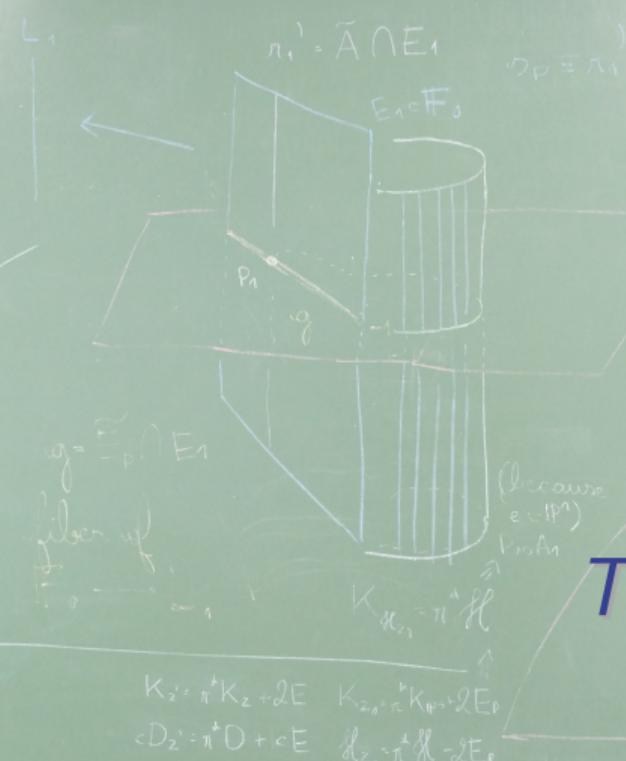
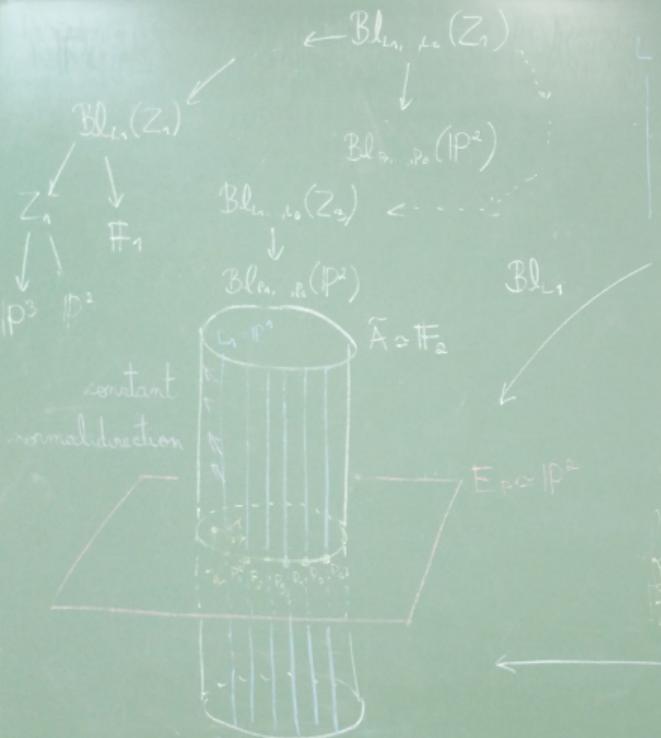
Let (\mathbb{P}^3, D) be a log Calabi-Yau pair of coregularity 2 and $\pi: (X, D_X) \rightarrow (\mathbb{P}^3, D)$ be a volume preserving toric $(1, a, b)$ -weighted blowup of a torus invariant point. Then this point is necessarily a singularity of D and, up to permutation, the only possibilities for the weights initiating a volume preserving Sarkisov link, depending on the type of singularities, are listed in the following table:

3-DIMENSIONAL SCENARIO

VOLUME PRESERVING SARKISOV LINKS

type of singularity	possible volume preserving weights
A_1	(1,1,1)
A_2	(1,1,1), (1,1,2)
A_3	(1,1,1), (1,1,2)
A_4	(1,1,1), (1,1,2), (1,2,3)
A_5	(1,1,1), (1,1,2), (1,2,3)
$A_{\geq 6}$	(1,1,1), (1,1,2), (1,2,3), (1,2,5)
D_4	(1,1,1), (1,1,2)
$D_{\geq 5}$	(1,1,1), (1,1,2), (1,2,3)
E_6	(1,1,1), (1,1,2), (1,2,3)
E_7	(1,1,1), (1,1,2), (1,2,3)
E_8	(1,1,1), (1,1,2), (1,2,3)

Table: Table summarizing volume preserving weights initiating Sarkisov links, up to permutation.



**THANK YOU!
OBRIGADO!**

LMO