

This is not Π_0 , but there is a map $F\mathcal{P} \rightarrow \mathcal{I}$.
Teris Brane Monodromy
 $\Pi_1(F\mathcal{P})$ acts on the derived categories
of the toric CY GUT quotients.

Augmented FDD

$\text{Augmented FDD} \subset \mathbb{C}^n = \{z = (x_1, x_2, \dots, x_n) \mid z \in \mathbb{C}\}$

Let $Z = \{x \in \mathbb{C}^n \mid Ax = b\}$

$\Rightarrow Z = \{x \in \mathbb{C}^n \mid Ax = b\} = \{x \in \mathbb{C}^n \mid Ax - b = 0\}$

$\Rightarrow Z = \{x \in \mathbb{C}^n \mid Ax = b\} = \{x \in \mathbb{C}^n \mid A(x - x_0) = 0\}$

$x = x_0 + v$ where $v \in \{x \in \mathbb{C}^n \mid A(x - x_0) = 0\}$

We know $\{x \in \mathbb{C}^n \mid A(x - x_0) = 0\} = \text{Nullspace}(A)$

$\Rightarrow Z = x_0 + \text{Nullspace}(A)$

$A = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}, \quad W_{\text{Nullspace}}(A)(X_2) = X_1 + 2X_2$

The vector X_2 is called a basis for the row space of $(A^T)^*$, $W_{\text{Nullspace}}(A^T)^* = \{0\}$

where A^T is the transpose of A .

Can we use A^T to solve instead of A ?

$\text{Nullspace}(A^T) = \{0\}$

Every computation gives $\Delta = \text{diag}$

FPS \rightarrow 

$D(X)$

$D(X_1)$

$(P_1, P_2, \dots, P_n) \in (\mathbb{C}^n)^n$

$\Delta = \text{diag}$