Eine Woche, ein Beispiel 1.28 conormal bundle

1. conceptions describing the singularity

$$\begin{aligned}
e \cdot g \\
\{\omega^2 = z^3\} & \{\omega^2 = 0\} & = \{v \in \mathbb{C}^2 \mid \langle v, d\omega \rangle = 0\} & \subseteq \mathbb{C}^2 \\
\{z_1^2 + z_2^3 + z_3^4 = 0\} & \{z_1^2 = 0\} & = \{v \in \mathbb{C}^3 \mid \langle v, adz_1 + bdz_2 \rangle = 0\} & \subseteq \mathbb{C}^3 \\
& \{for some (a, b) \in \mathbb{C}^2 - 0\}
\end{aligned}$$

Apart from these conceptions, we have topological cone:



 $\{w^2 = z^3\}$ with link $S' \subseteq S^3$

singularity

 $\{z_1^2 + z_2^3 + z_3^4 = 0\}$ with link $S^3/2/32 \subseteq S^5$