We have seen that $\tau \sim 4\sigma_{3,2,1}$,
where

$$\sigma_{3,2,1} = \{\Lambda_2 \subset \mathbb{P}^5 : \Lambda \ni p,\ \dim(\Lambda \cap V_2) \geq 1,\ \Lambda \subset V_4\}$$

for any point, 2-plane, and hyperplane $p \in V_2 \subset V_4$.

⌈ $\sigma_{3,2,1} = \{ \Lambda_2 \subset \mathbb{C}^6 : \dim(\Lambda \cap V_{6-3+i-a_i}) \geq i \}$

$\overset{\shortparallel}{a_1}\overset{\shortparallel}{a_2}\overset{\shortparallel}{a_3}$ $= \{\Lambda_2 \subset \mathbb{C}^6 : \dim(\Lambda \cap V_1) \geq 1,\ \dim(\Lambda \cap V_3) \geq 2$
$\dim(\Lambda \cap V_5) \geq 3\}$

$\Rightarrow \sigma_{3,2,1} = \{\Lambda_2 \subset \mathbb{P}^5 : p \in \Lambda,\ \dim(\Lambda \cap V_2) \geq 1,\ \Lambda \subset V_4\}$.

$G \subset \mathbb{P}^5 = \mathbb{P}^{4+1}$ see P735 ~ P741.
$\Sigma_{2,4}$ is the cycle (in $G(3,6)$) of 2-planes on $G \subset \mathbb{P}^5$. $\Rightarrow$ By the result on P741, $\Sigma_{2,4} \sim 2^3\sigma_{3,2,1}$
$\Rightarrow$ By the proposition on P735, G has two irreducible 3-dimensional families. $\Rightarrow$ By the remark on P741, τ is one of two irreducible families on G, and $\tau \sim \frac{1}{2}\Sigma_{2,4} \sim 4\sigma_{3,2,1}$.
⌋

To compute $\#(\tau \cdot \omega_F) = 4 \cdot \#(\sigma_{3,2,1} \cdot \omega_F)$
let p, V_2 and V_4 be generic, so that $p \notin F$, V_2 intersects F in a smooth conic curve C, and V_4 intersects F in a smooth quadric threefold Q.

⌈ Choose a generic V_4 so that $V_4 \cap F$ is a smoo-