

$$\begin{matrix} p, q, r \in \mathbb{P} \\ s, t, u \end{matrix}$$

$G \subseteq \mathbb{P}$
 generic filter
 $p, q, t, u \in G$
 $s, r \notin G$

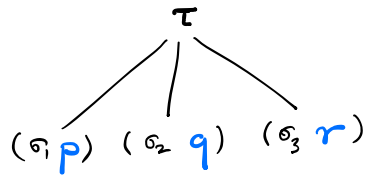
H

$$M[G] = \{ \tau_G \mid \tau \text{ } \mathbb{P}\text{-name}, \tau \in M \}$$

= "closure of $M \cup \{G\}$ under the ZFC-axioms"

$G \notin M$

$G \in M$

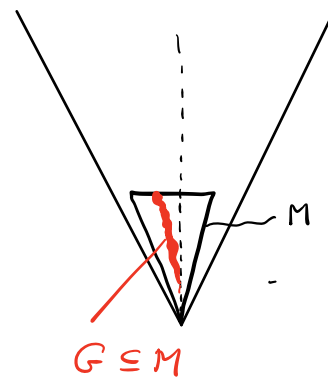


$\{p : p \in G\} \in \mathcal{P} \in M$
 $\hookrightarrow \notin M$

$\text{Ord } nM = o(M)$

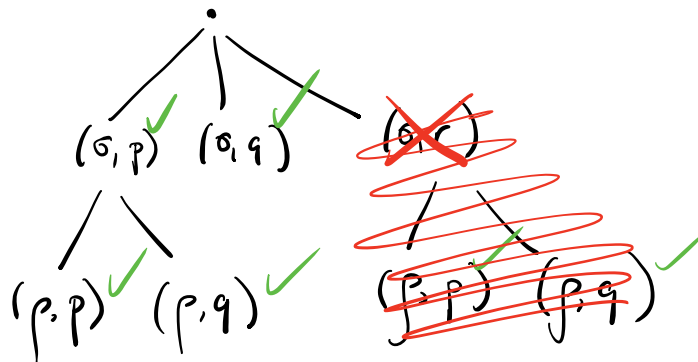
this is a set

$M \models (\text{Ord } nM = \text{proper class of all ordinals})$



$$T_G = \{ \sigma_G \mid \exists (\sigma, p) \in T \quad \exists p \in G \}$$

\downarrow
 rec.



$$M[G] \models \phi \leftrightarrow \exists p \in G (p \Vdash \phi)^M$$

? τ_G

$\phi(\tau_G)$ true or not ?

$$p \Vdash \phi(\tau)$$