

Axioms<sub>cons</sub>  $\wedge$  Mgr(Alice)  $\vdash \exists_{\text{yo}}(\text{Alice})$

$$\left( \text{MP: } \frac{\forall x \text{ Mgr}(x) \rightarrow \exists_{\text{yo}}(x)}{\exists_{\text{yo}}(\text{Alice})} \right)$$

Other proof than before

....

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Axioms<sub>cons</sub>  $\wedge$  Tmgr(Alice)  $\vdash \exists_{\text{yo}}(\text{Alice})$

Axiom:  $\boxed{\forall x : T\text{mgr}(x) \rightarrow \exists d : \text{mg}(x, d)}$

$$\text{MP: } \frac{\forall x : T\text{mgr}(x) \rightarrow \exists d : \text{mg}(x, d)}{\exists d : \text{mg}(\text{Alice}, d)} \quad \text{Tmgr(Alice)}$$

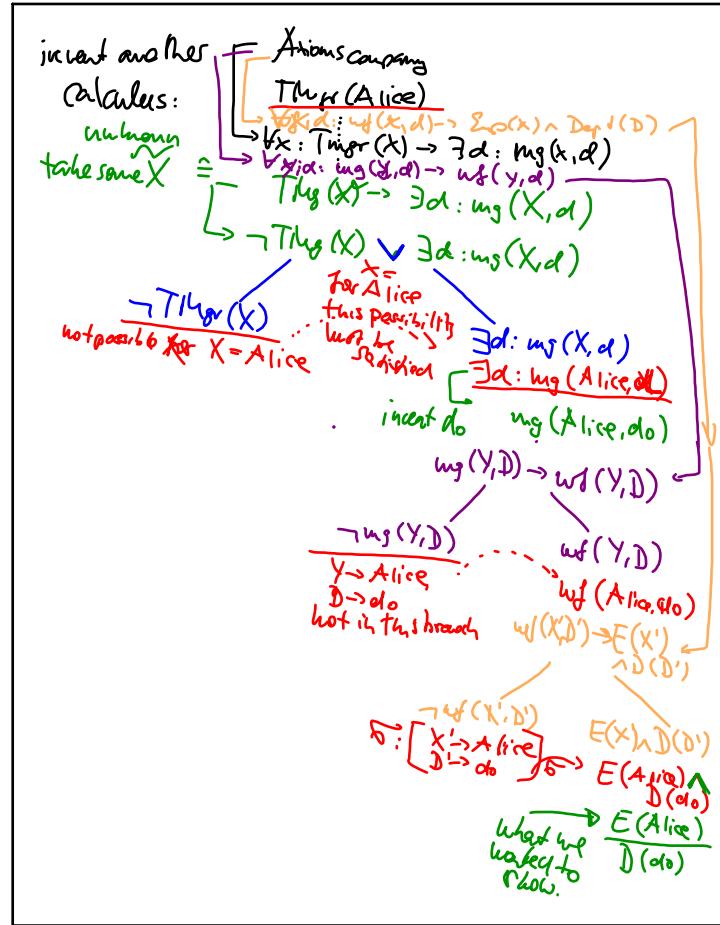
$\Rightarrow$  MP proof not directly applicable  
invent an Existence Rule

$$\frac{\exists X : p(X)}{\text{invent an } x_0 \quad p(x_0)}$$

$$\text{Continue proof: } \frac{\exists d : \text{mg}(\text{Alice}, d)}{\text{mg}(\text{Alice}, d_0)}$$

Continue as before with  $d_0$  instead of  $x_0$ , etc.

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Brewer Form example:

$\left[ \begin{array}{l} f \times TM_{g\ast}(\lambda) \rightarrow \exists d: m_g(x, d) \\ \hookrightarrow f \times \exists d: TM_{g\ast}(x) \rightarrow m_g(x, d) \end{array} \right]$

## Epithelial example.

Choose  $f_{\text{dep}}$  and  $f_{\text{rec}}$  as  $\infty$

for my "S":  $\text{txwf}(X, \text{forget}(x))$ , etc.

Recall pre- $\text{perm}$ . And  $\forall x: \text{mg}(\text{Perm}(x), x)$  holds.

sholenzzeit | ↑↑

shorthand it ~~vector~~:  $\underline{v} = (x, y, z, d, b)$

.....choose  
as often as

choose  
as a fraction  $\frac{a}{b} = \frac{c}{d}$ :  $G(x, f(x), z, a, b)$

$$Y = f(t)$$

### Classification

15) Method of  
 $f_2(x, z, \alpha)$  to x to be  
 $\text{bd}(G(x, f_1(z), z, \alpha))$

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$$\forall x \exists y \forall z \forall d \exists b \quad G_1(x, y) \wedge G_2(z, d, b)$$

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