Computational Logic

FORT 1.0

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IWC 2017, Oxford

September 8, 2017

supported by FWF project P 27528

Computational Logic

FORT 1.0

Franziska Rapp and **Aart Middeldorp**

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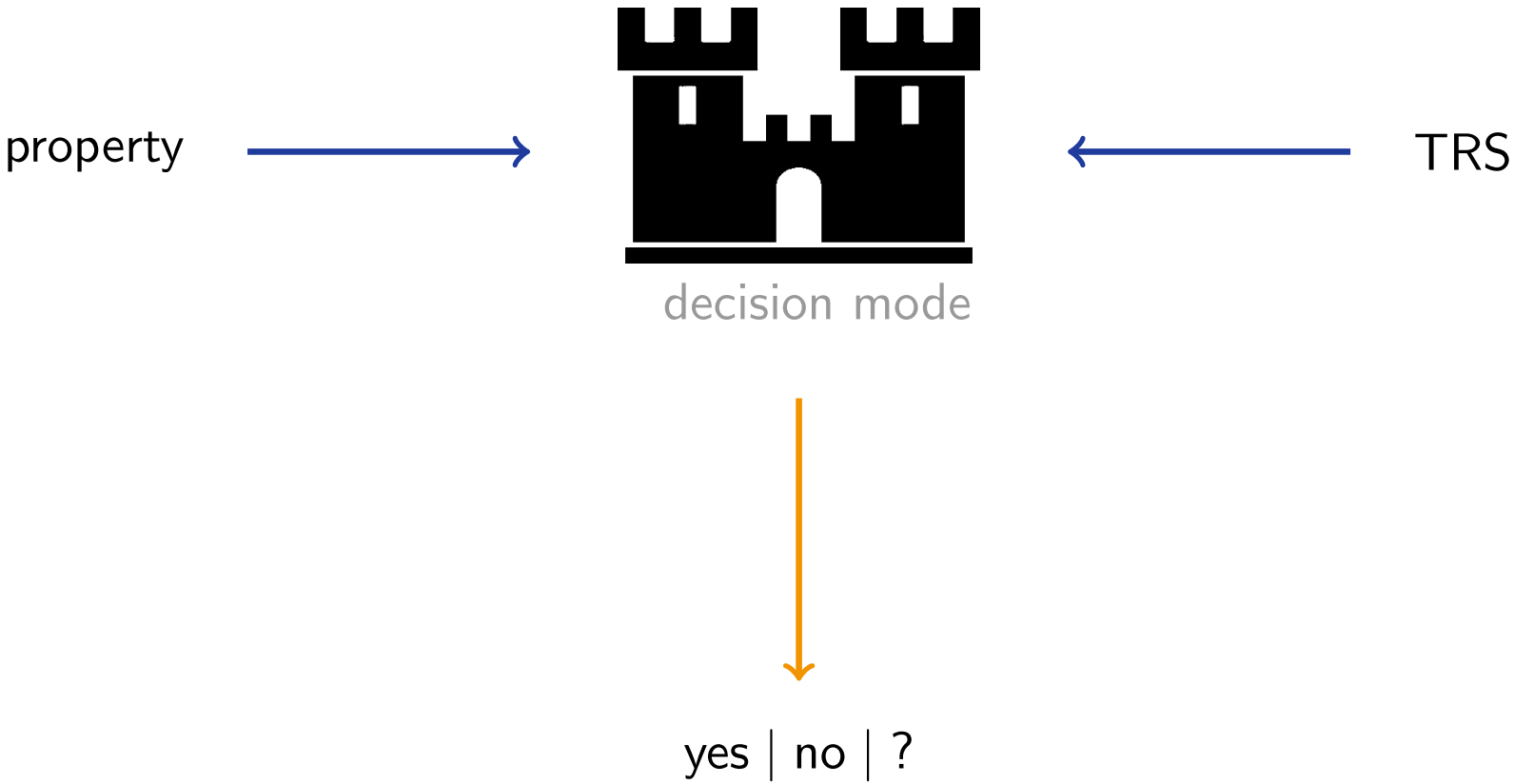
IWC 2017, Oxford

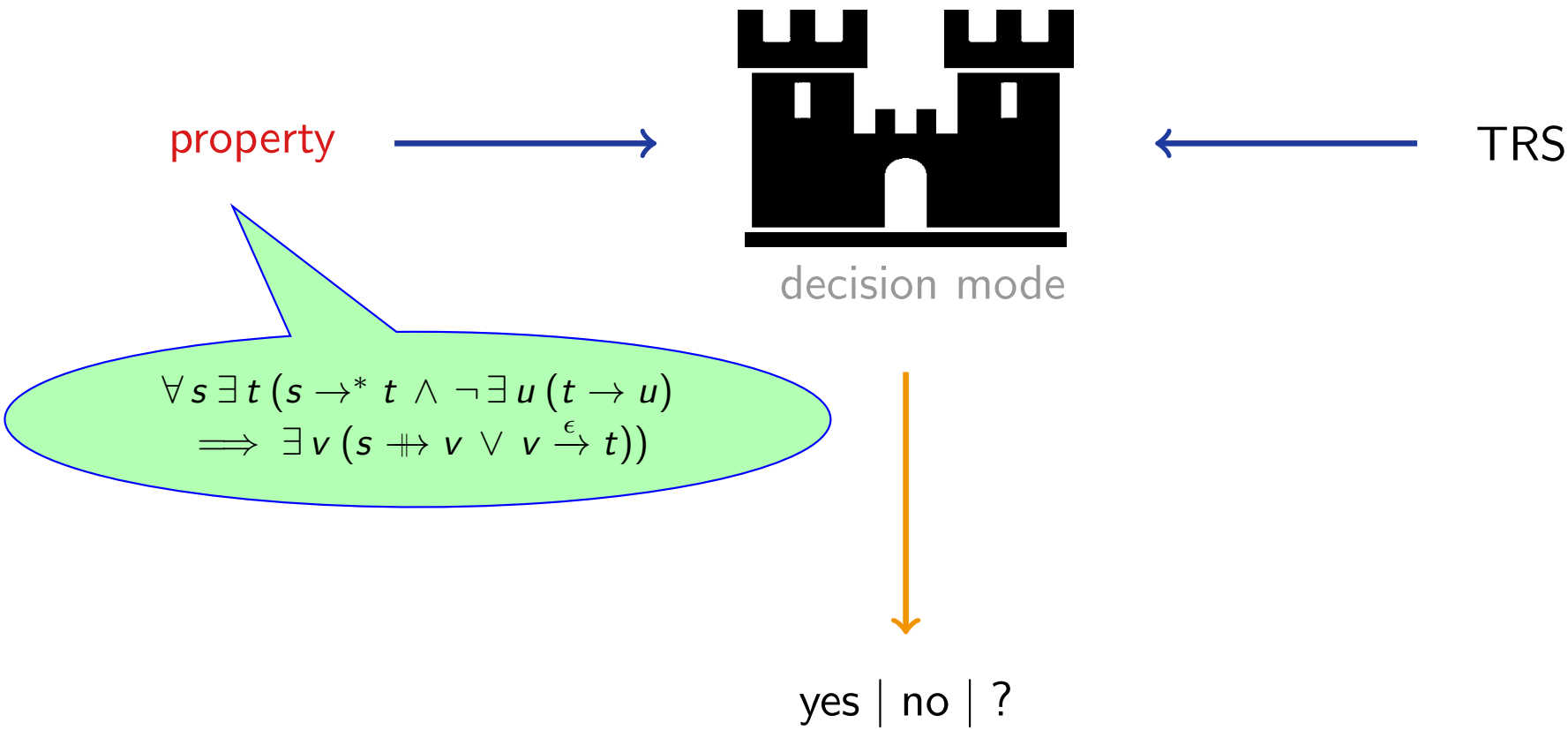
September 8, 2017

supported by FWF project P 30301

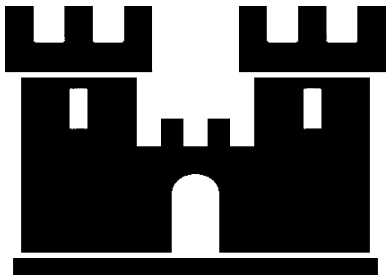
FORT



FORT


property
TRS
decision mode
$\forall s \exists t (s \to^* t \wedge \neg \exists u (t \to u) \Longrightarrow \exists v (s \twoheadrightarrow v \vee v \xrightarrow{\epsilon} t))$
yes | no | ?

FORT



(left-linear right-ground)

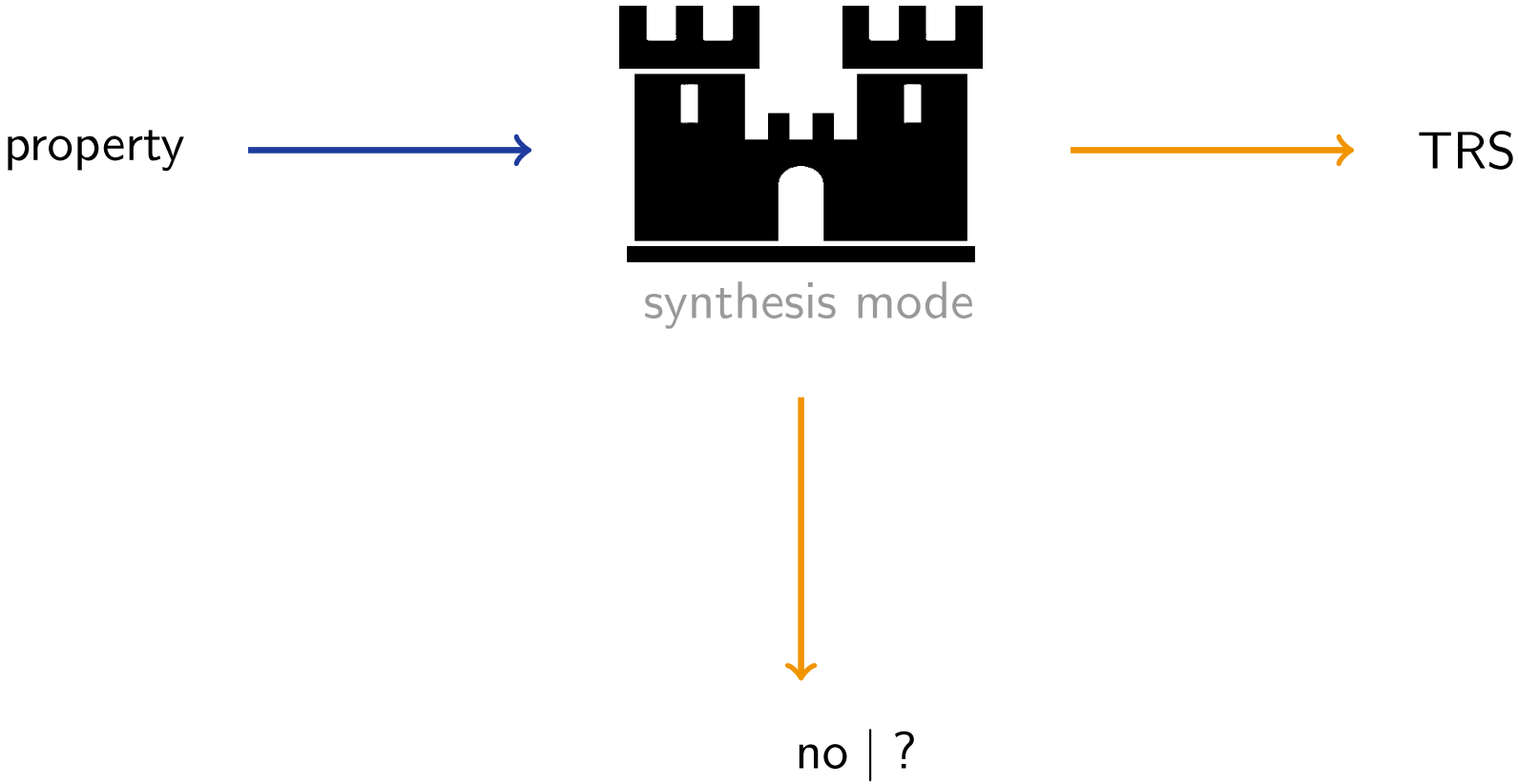
property → TRS

decision mode

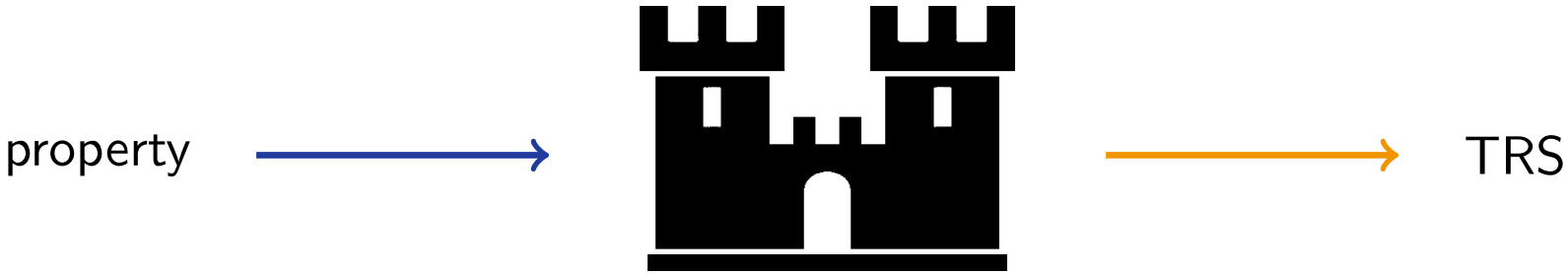
$$\forall s \exists t \, (s \to^* t \wedge \neg \exists u \, (t \to u) \implies \exists v \, (s \twoheadrightarrow v \vee v \xrightarrow{\epsilon} t))$$

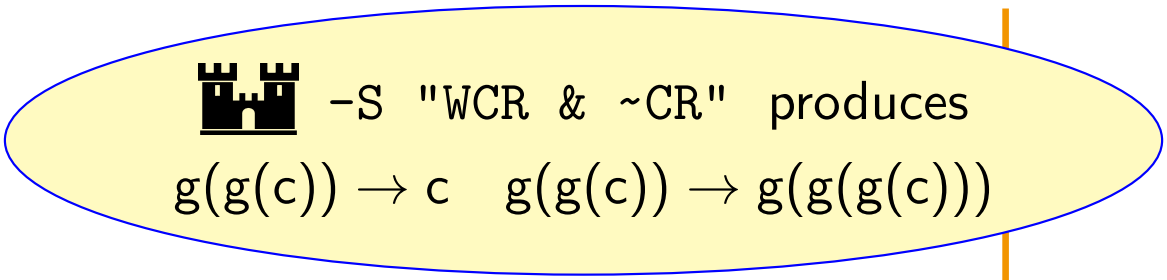
yes | no | ?

FORT



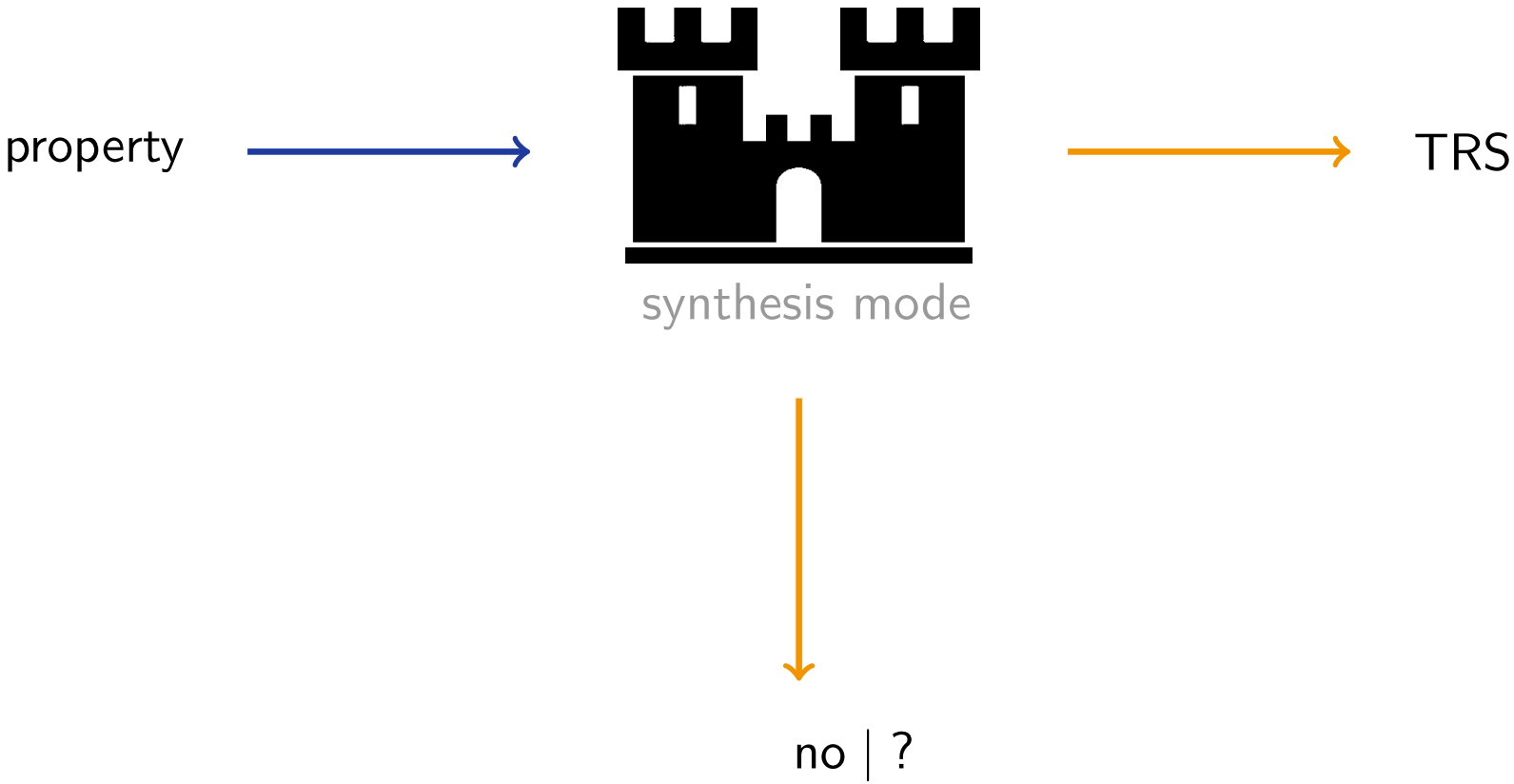
FORT





no | ?

FORT



FORT is based on tree automata techniques (Dauchet and Tison, LICS 1990)

FORT 1.0 participates in

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- . . . GCR category

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- ... GCR category
- ... combined UN (UNR, UNC, NFP) category

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Remark

- NFP $\Longrightarrow$ UNC $\Longrightarrow$ UNR

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- ... GCR category
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Remark

- NFP $\Longrightarrow$ UNC $\Longrightarrow$ UNR
-  's parallelization efforts for CoCo 2016 are useless for CoCo 2017 ☹