

Menu

Prop Logic: Resolution

CDCL

Theoris: Equality (ground)

CC

Linear Arithmetic

Simp FM

Prop + Theoris: CDCL (T)

Melzer-Opme

FOL (no equality)

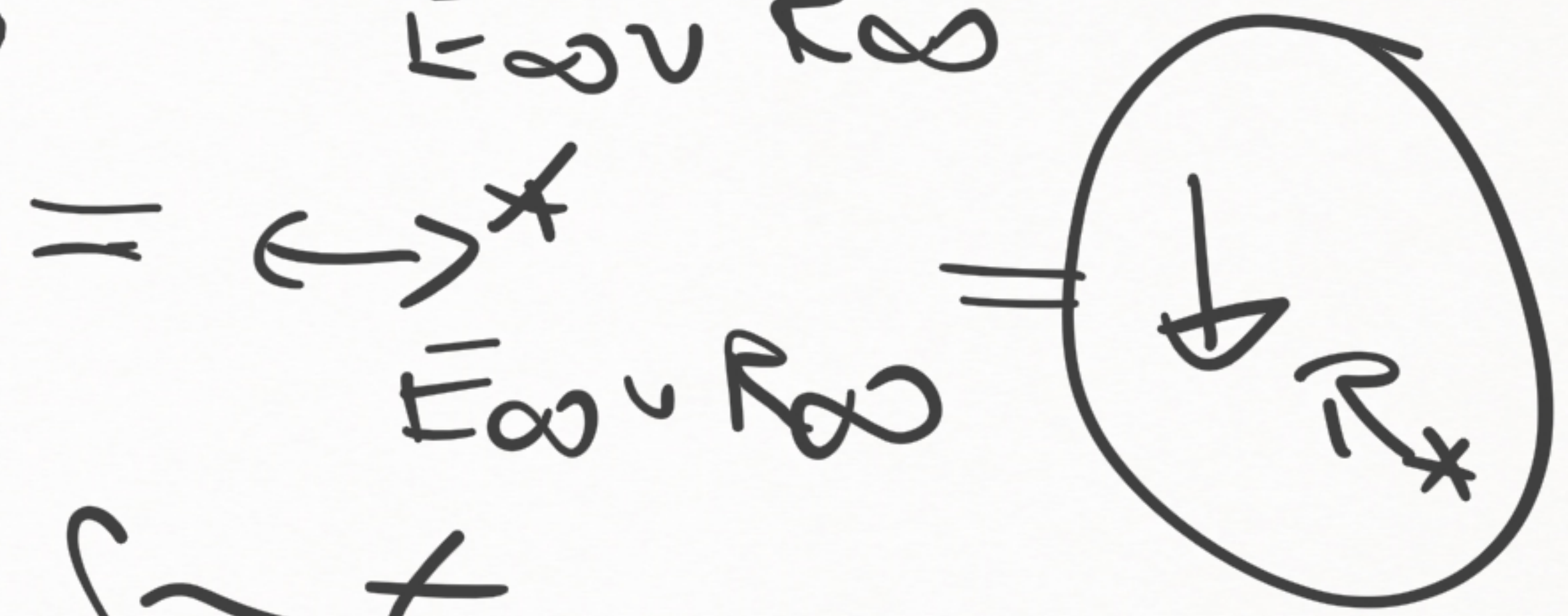
~~Resolution~~

Equational Reasoning:

~~Superposition~~
KBC

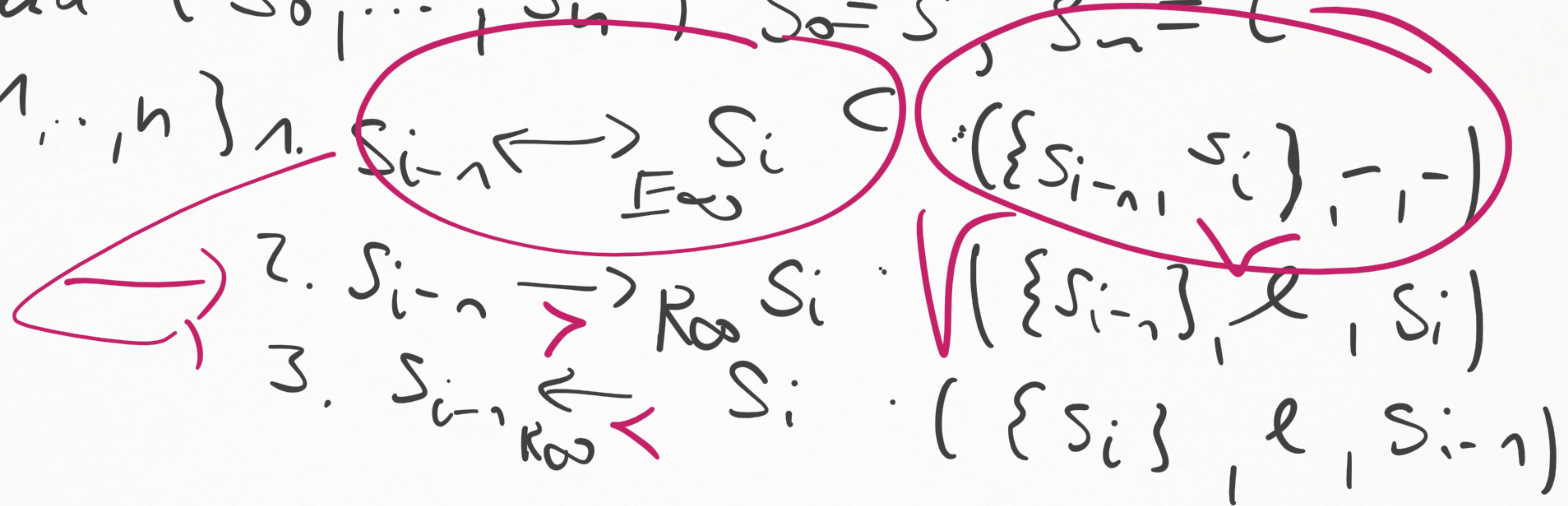
→ FOL + Eq

KBC \leadsto convergent + Eguir in the limit
 if a run is fair then: $\approx_{F_0} = \approx_{F_\infty \cup R_\infty}$



A msg in $F_\infty \cup R_\infty$ of $S_i = t$

sequence (S_0, \dots, S_n) $S_0 = s, S_n = t$
 $i \in \{1, \dots, n\}$



By induction on h ? proof: $\in E_{\infty} \cup R_{\infty}$

T is not rewrite map in \mathcal{R}_*

1. start in E_{∞}

2. stop in $R_{\infty} / \mathcal{R}_*$

3. $S_{i-1} \xleftarrow{\mathcal{R}_*} S_i \rightarrow S_{i+1}$ make

|| $S \rightarrow \rightarrow \rightarrow S' \leftarrow \leftarrow \leftarrow \leftarrow$ result,

1 is finite $s=t$ is deleted word in the ^{proof} stop

a) orient $S_{i-1} \xleftarrow{s=t \in E_{\infty}} S_i \rightsquigarrow S_{i+1} \rightarrow S_i$

b) Delete

$S_{i-1} \xleftarrow{s=t \in E_{\infty}} S_i \rightsquigarrow S_i$ ($S_i = S_{i-1}$)

PCP

(ab, ab, aa)

(aba, ba, a)

a|a|a|a|a

a|b|a|b|a

$\rightarrow f_R(\epsilon, \epsilon) \rightarrow d$

$f_R(g_a(x), g_b(x)) \rightarrow c$

$f_R(g_b(x), g_b(x)) \rightarrow \epsilon$

$f_R(g_a(g_b(x)), g_a(g_b(g_a(x)))) \rightarrow f_R(x, z)$

$f_R(g_a(g_b(x)), g_b(g_a(x))) \rightarrow f_R(x, z)$

$f_R(g_a(g_a(x)), g_a(x)) \rightarrow f_R(x, z)$

