PRACTICAL APPLICATIONS

- Very briefly:-

- ·coalescence
- · What if Coupled leaf expansion?
 - . What about backtracking?

ON COALESCENCE

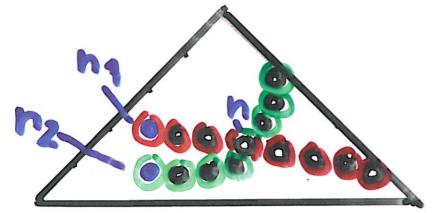
- · analyzing the unbounded refinement Context for each leaf to be expanded may be laborious!?
- what if the analysis were carried out in an incremental fashion? (see below)

Note:

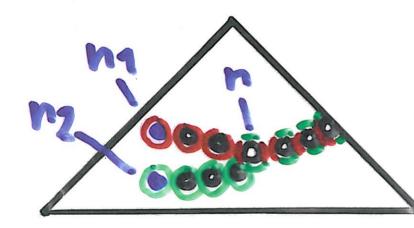
- the two sides, of the Context are here considered separately (which is rational)
- o here we assume $5_1 = 5_2$

o further assumption:

h below holds a non
terminal



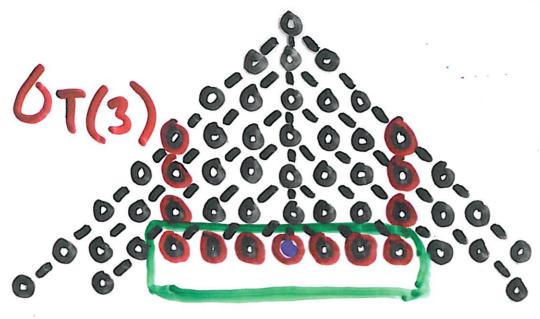
NOT RIGHT-COALESCENT!



RIGHT-COALESCENT!

A result: Each one of GI, Go and GI (15km) (15km) is both left - coalescent and right-coalescent

POSSIBLE CHANGE: ALLOWING COUPLED LEAF EXPANSION



Consider frame (GT(3), GT(3), GE, E)

oThe marked leaf set
Could in principle be
Expanded as a single
Coupled Step, as the
Tetinement Contexts Coalesce
This promotes optimization
— as it suffices that the
Coupled Step as a whole
preserves the semantics
• the same helds for 15 keloce

ANOTHER POSSIBLE CHANGE: ALLOWING BACKTRACKING

- · a target scenario (?):
 - it could be examined whether some branch of the tree is "defective"
 - Such a branch could then be deleted (and the leaf expansion would re-Start at the cut point
- · it seems that this could be achieved by adopting some more (perhaps another 4) belt-selectors