

# COLLOQUE DU DIRO

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**Titre :** Reconciliation of non-binary evolutionary trees

## Résumé

Disagreement between trees representing the evolution of genes and species is evidence that these entities are not simply co-evolving by vertical descent. The problem of reconciling binary gene trees with binary species trees to infer gene duplication, gene loss and/or horizontal gene transfer is a well-studied. However, when the species tree is non-binary, disagreement can also arise from genetic variation in ancestral populations. I will present algorithms for reconciling binary gene trees with non-binary species trees that take population genetic factors into account and discuss their application to resolving uncertainty in species trees.

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