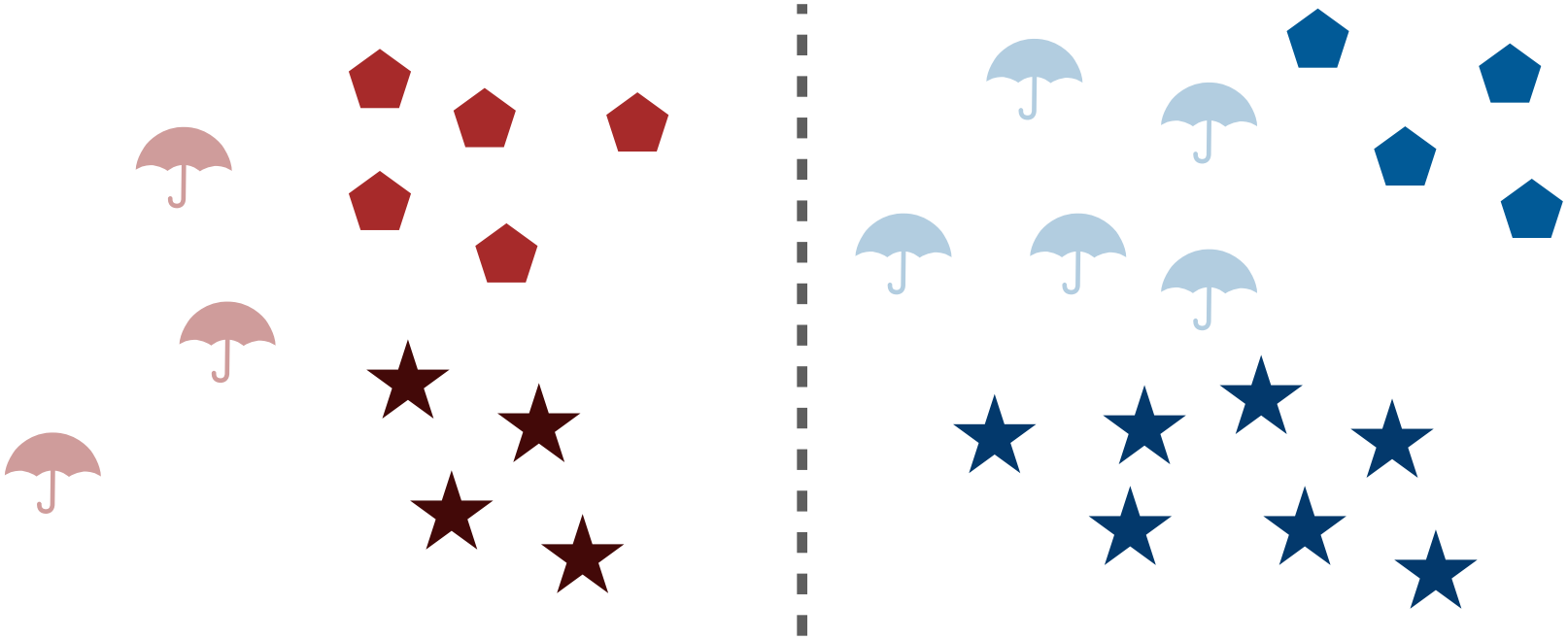
[redacted]

with Submodular Costs

Matching

24



sum over all groups

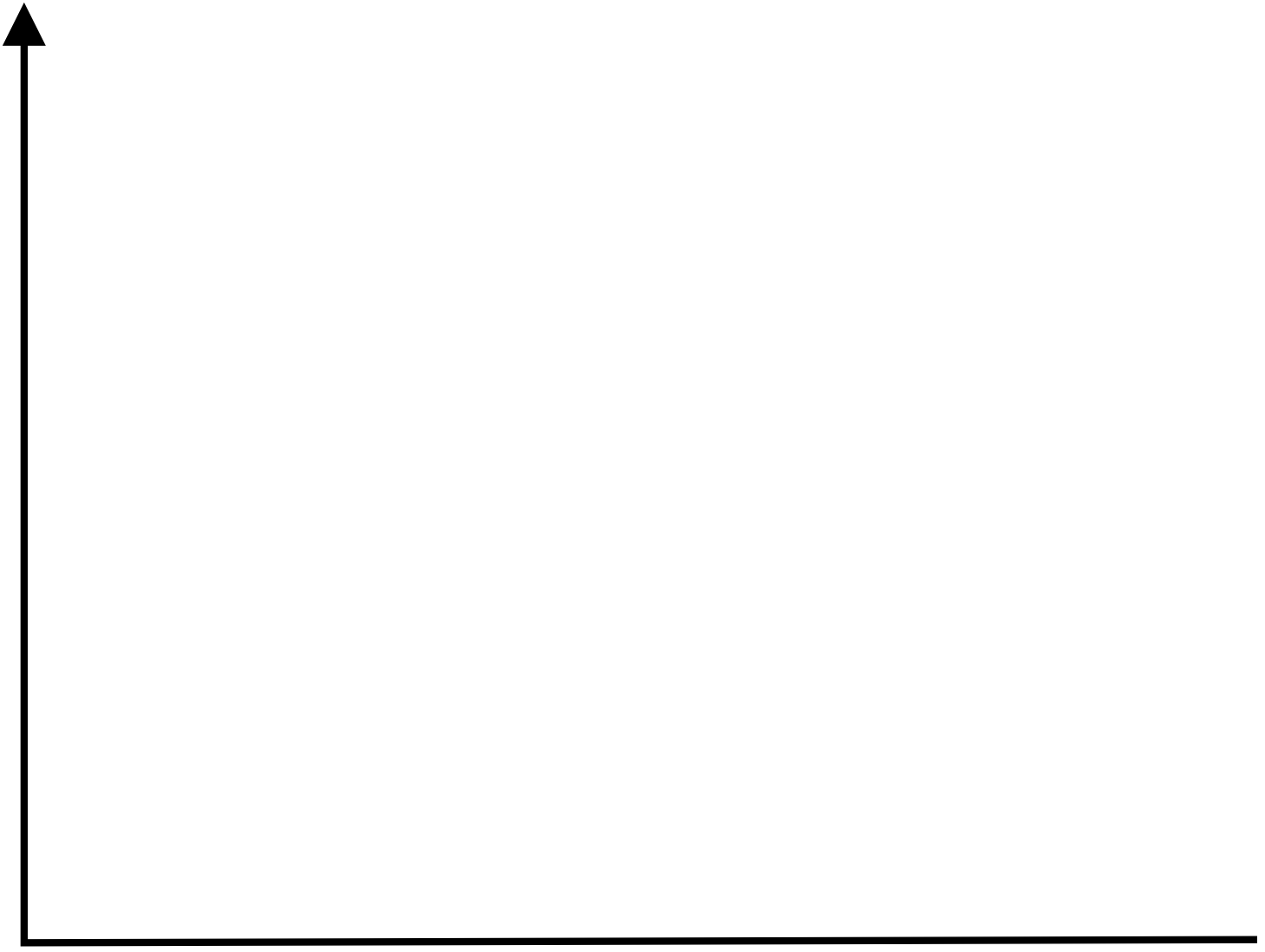
concave function to "dampen"

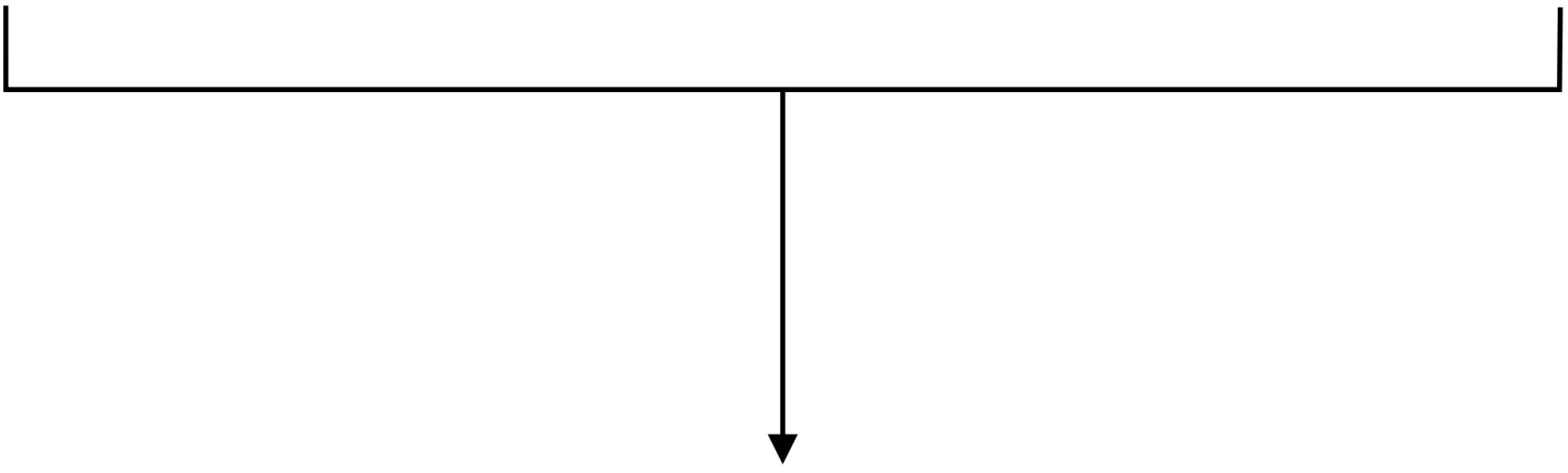
marginal cost of (i,j) match

$$F(M) = \sum_{k}^{K} g \left(\sum_{(i,j) \in M \cap G_k} c_{ij} \right)$$

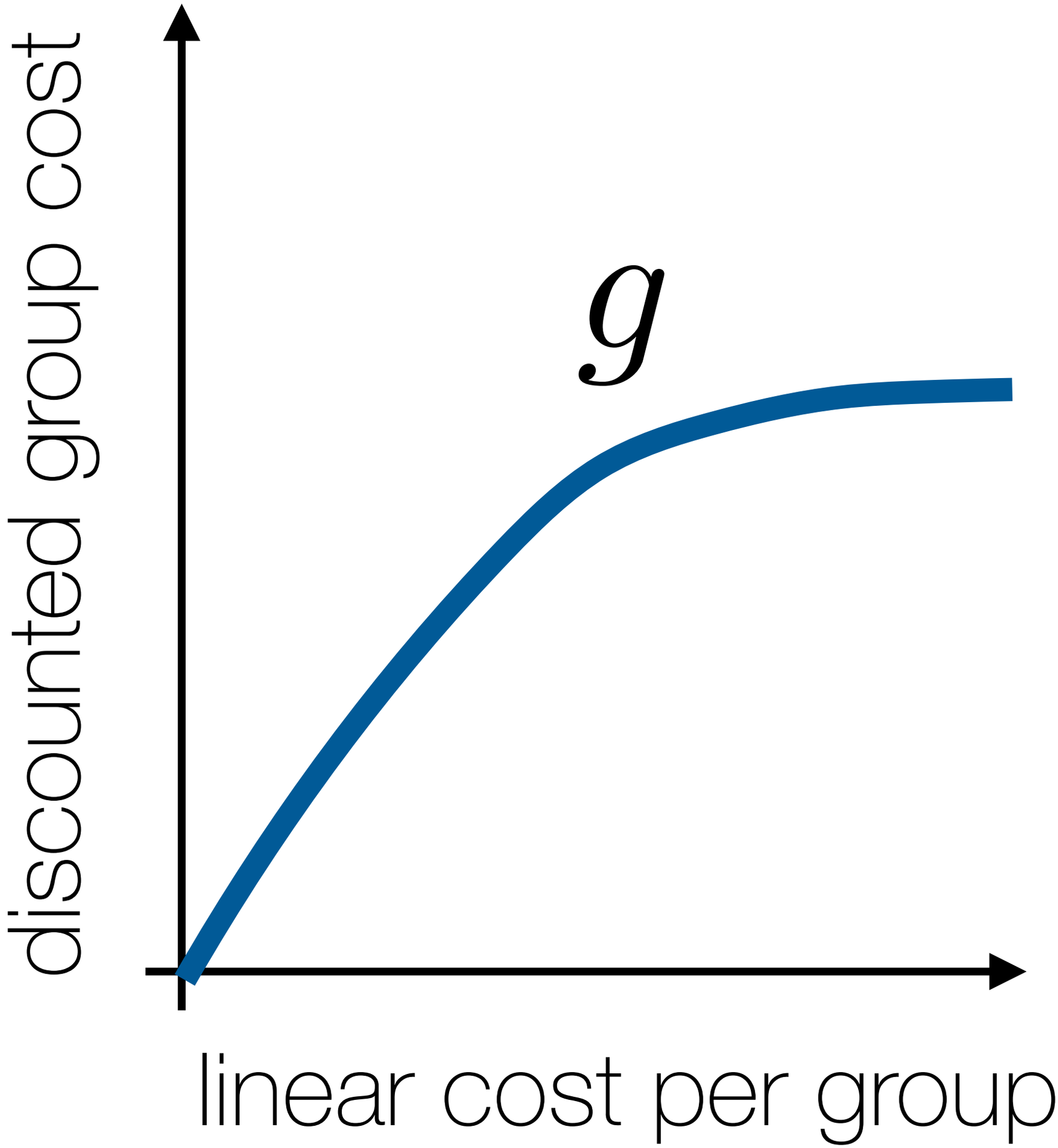
groups defined by problem structure ⟶

[label classes, tree siblings, etc]



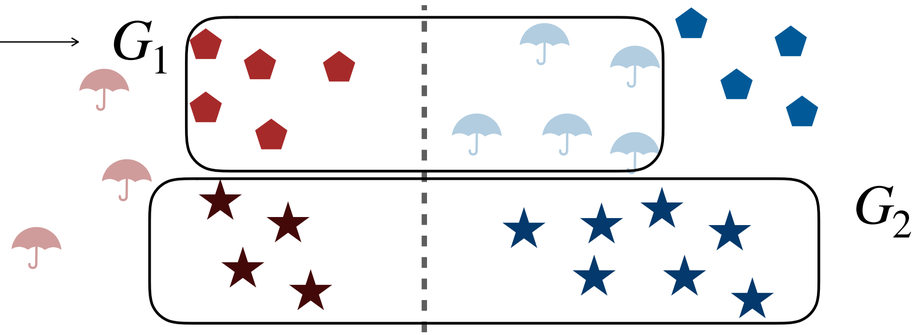


cumulative cost for matches in group


discounted group cost
g
linear cost per group

Matching
with Submodular Costs

groups defined by problem structure
[label classes, tree siblings, etc]



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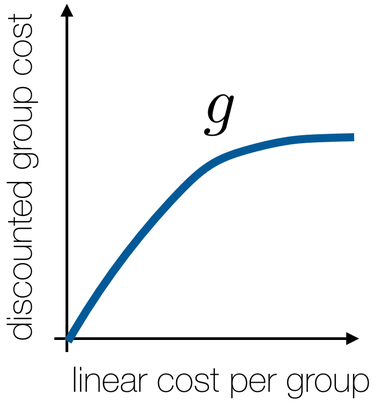
cumulative cost for matches in group



Structured OT
Relaxing the Objective