



putting it all together

Aligning Hyperbolic Spaces

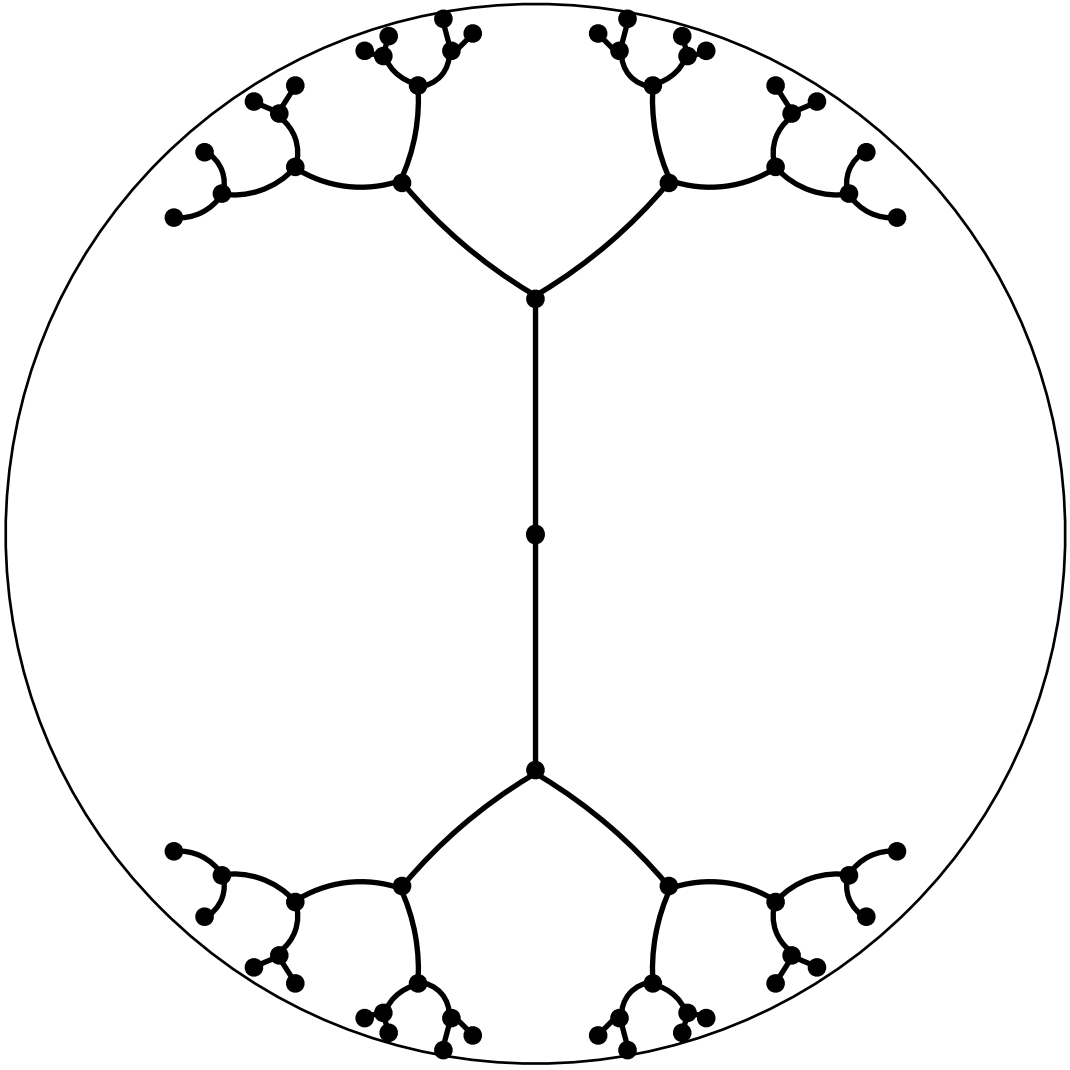
5

9

• Given two related hierarchies in the Pinch Disk, can we match them?



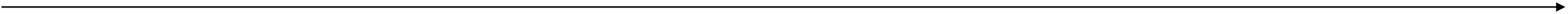
2















P



(21)

T



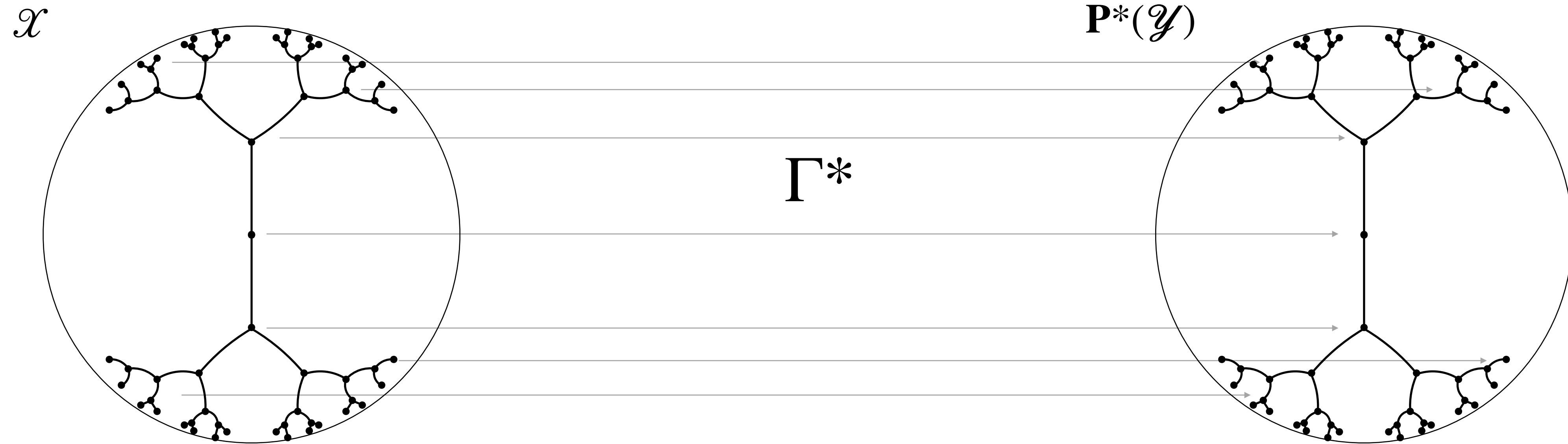
$$\min_{\Gamma \in \Pi(\mathbf{a}, \mathbf{b})} \min_{P \in \mathcal{F}_\infty} \sum_{ij} \Gamma_{ij} d_{\mathbb{D}}(\mathbf{x}^{(i)}, \mathbf{Py}^{(j)})$$



Aligning Hyperbolic Spaces

putting it all together

- Given two related hierarchies embedded in the Poincare Disk, can we match them?



$$\min_{\Gamma \in \Pi(\mathbf{a}, \mathbf{b})} \min_{\mathbf{P} \in \mathcal{F}_\infty} \sum_{ij} \Gamma_{ij} d_{\mathbb{D}}(\mathbf{x}^{(i)}, \mathbf{P}\mathbf{y}^{(j)})$$

Aligning Hyperbolic Spaces with Optimal Transport

Does the theory extend?

Does it work in practice?