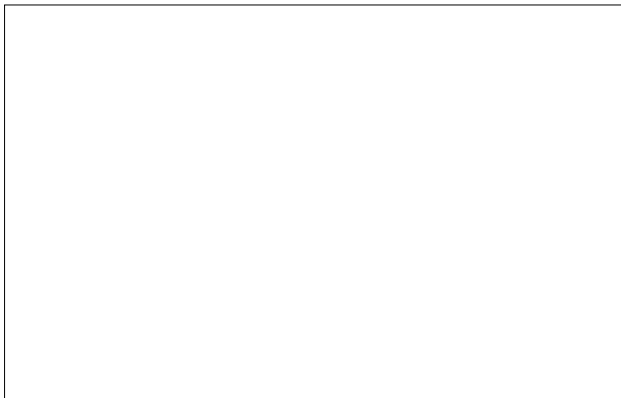


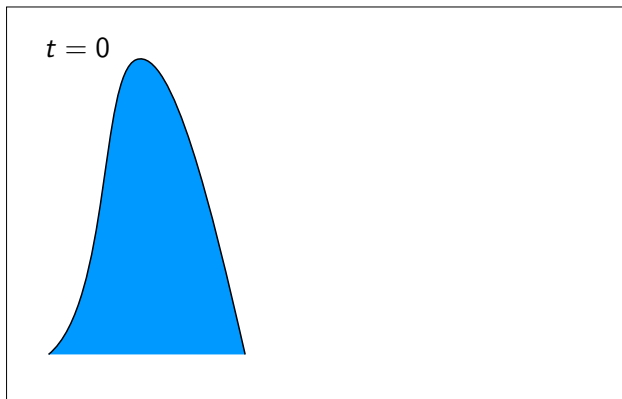
Displacement interpolations

- standard affine interpolation between μ_0 and μ_1
 $\mu_t^{\text{aff}} := (1 - t)\mu_0 + t\mu_1 \in \mathcal{P}(\mathcal{X}), 0 \leq t \leq 1$



Displacement interpolations

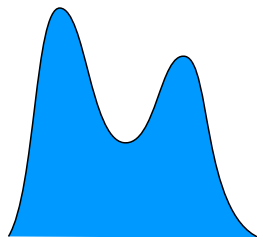
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Displacement interpolations

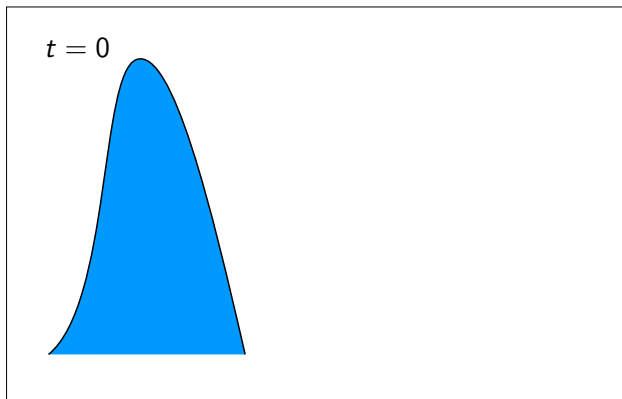
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$t = 1$



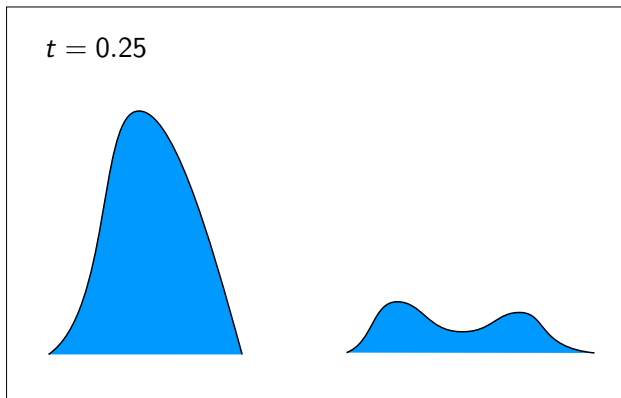
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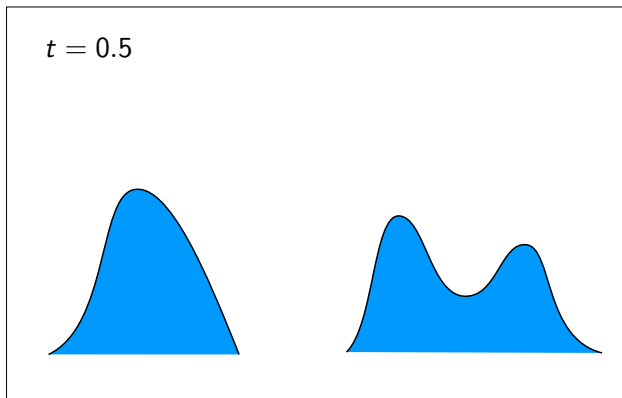
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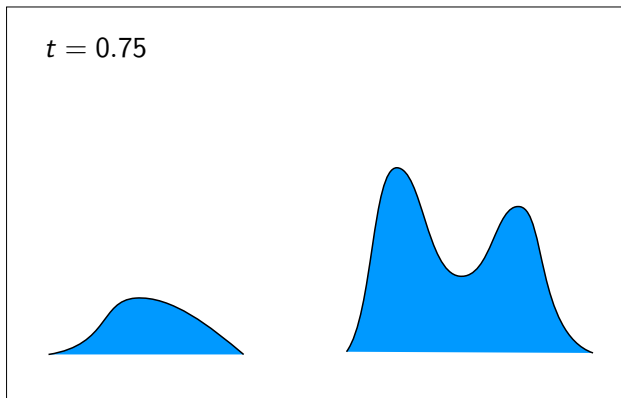
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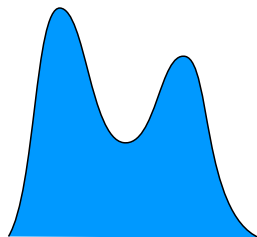
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Displacement interpolations

affine interpolations require mass transference with infinite speed

Displacement interpolations

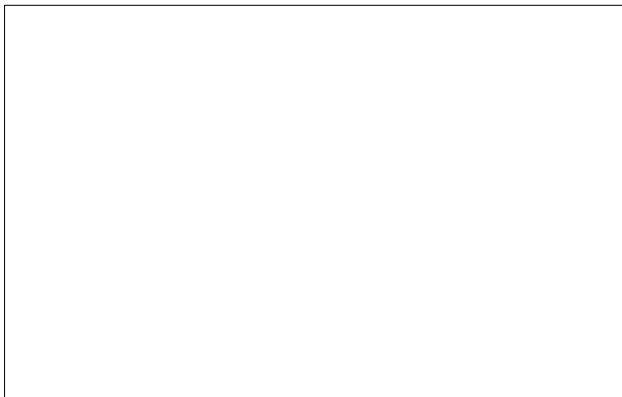
affine interpolations require mass transference with infinite speed



- denial of the geometry of $\mathcal{X}$
- we need interpolations built upon *trans*-portation, not *tele*-portation

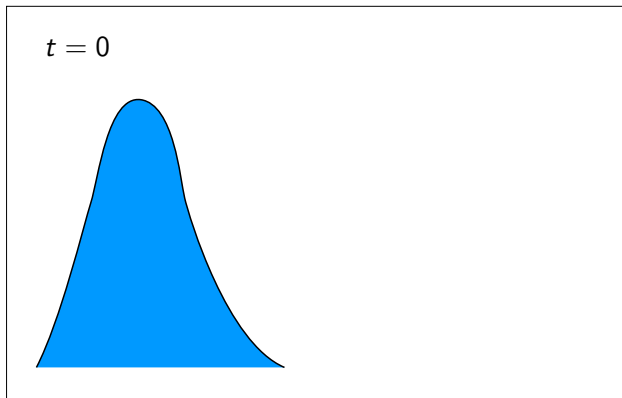
Displacement interpolations

- we seek interpolations of this type



Displacement interpolations

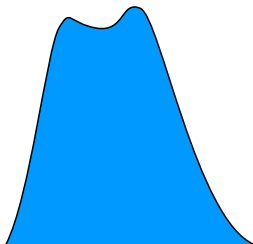
- we seek interpolations of this type



Displacement interpolations

- we seek interpolations of this type

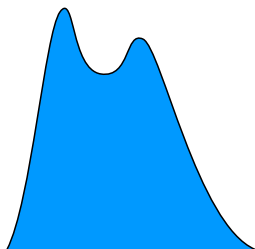
$$t = 0.25$$



Displacement interpolations

- we seek interpolations of this type

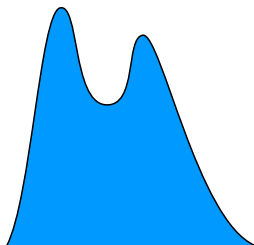
$t = 0.5$



Displacement interpolations

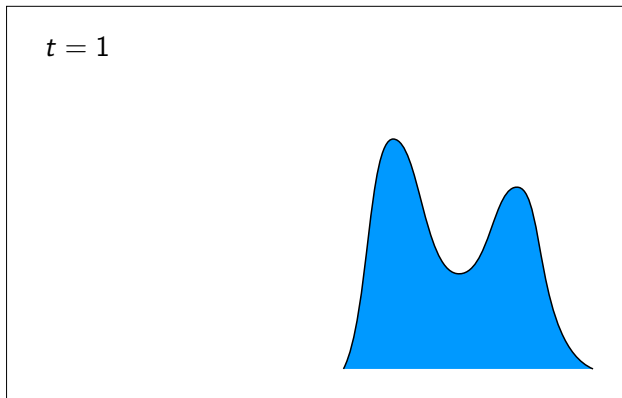
- we seek interpolations of this type

$$t = 0.75$$

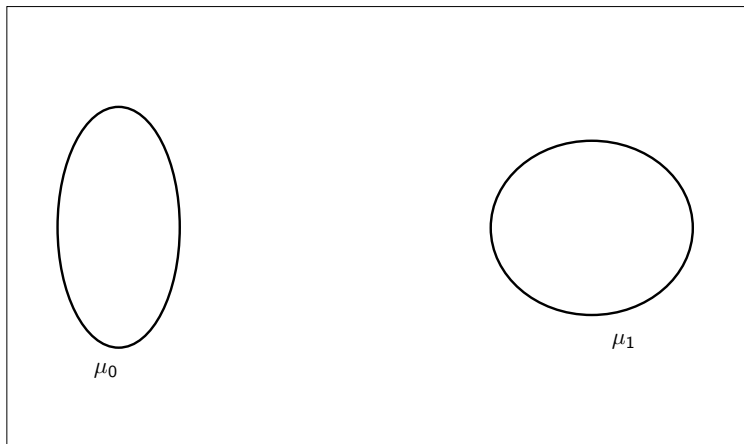


Displacement interpolations

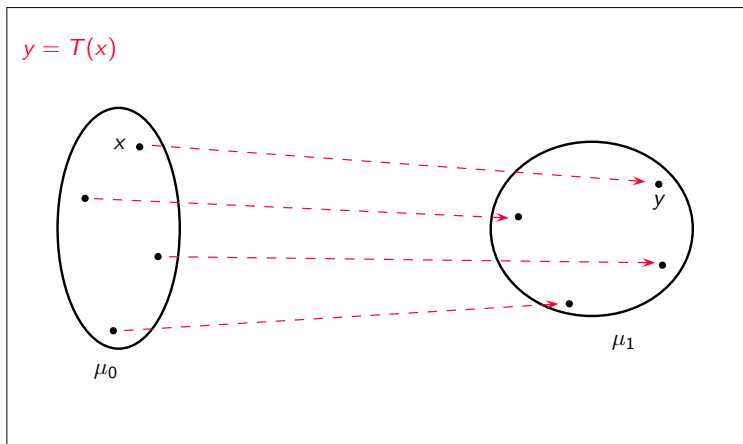
- we seek interpolations of this type



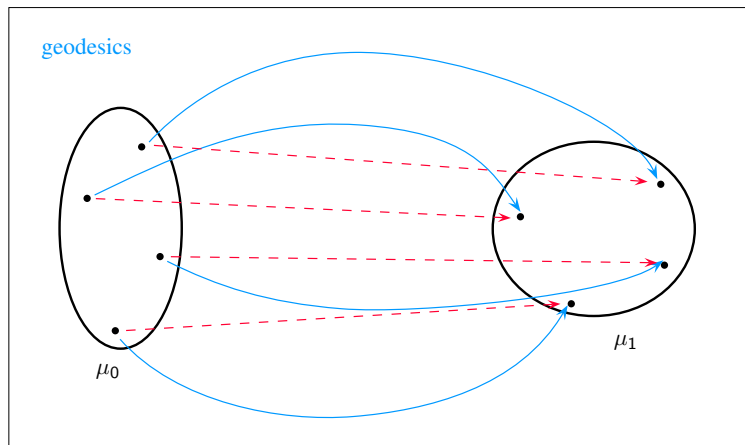
Displacement interpolations



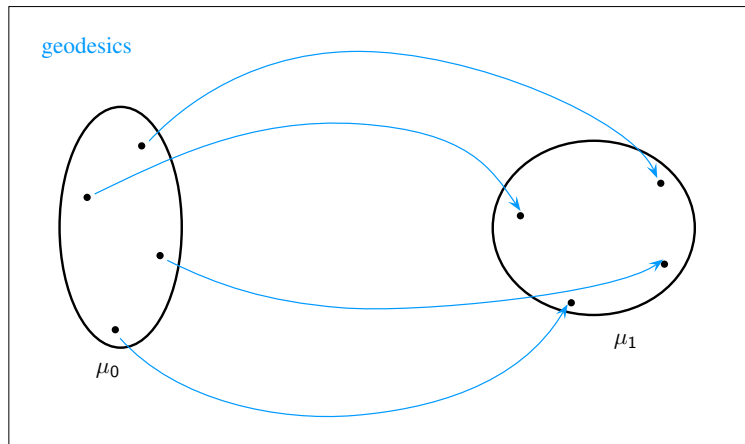
Displacement interpolations



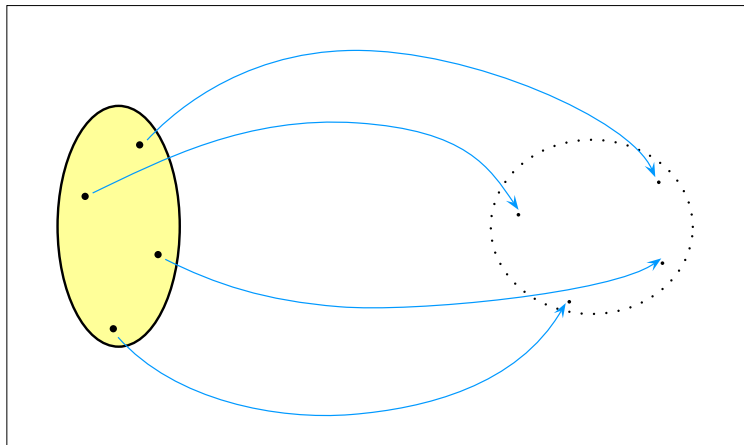
Displacement interpolations



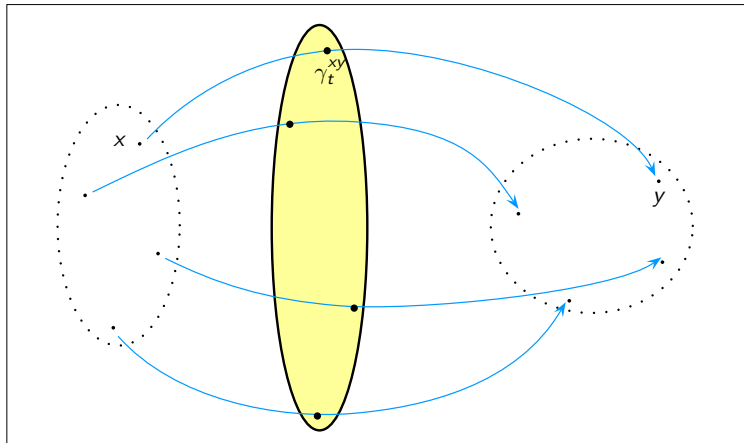
Displacement interpolations



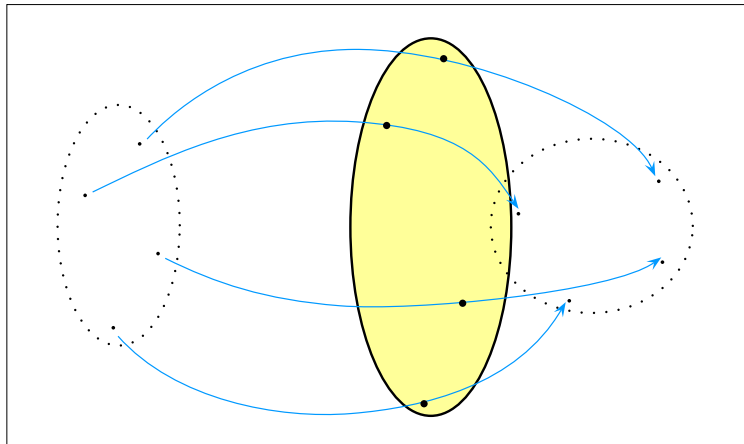
Displacement interpolations



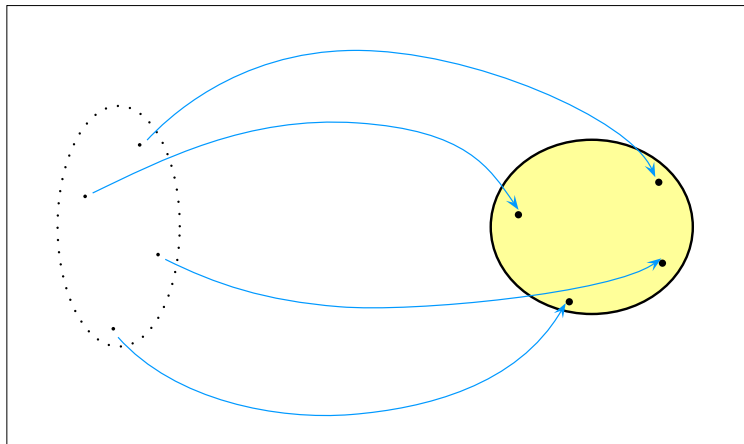
Displacement interpolations



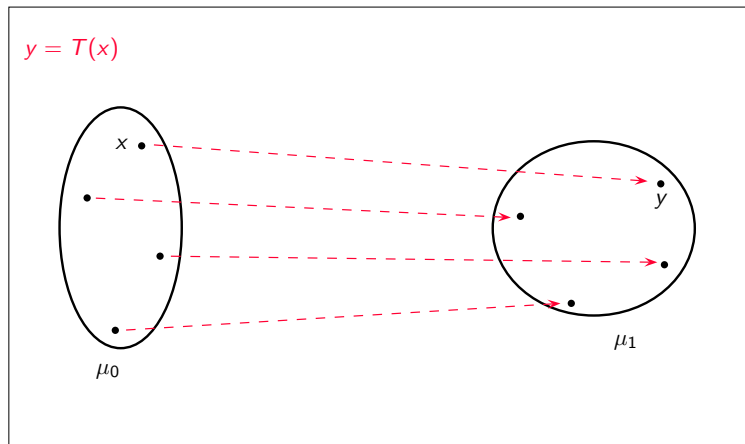
Displacement interpolations



Displacement interpolations



Displacement interpolations



- relax this deterministic pairing by introducing a probabilistic coupling