Data assimilation practicals

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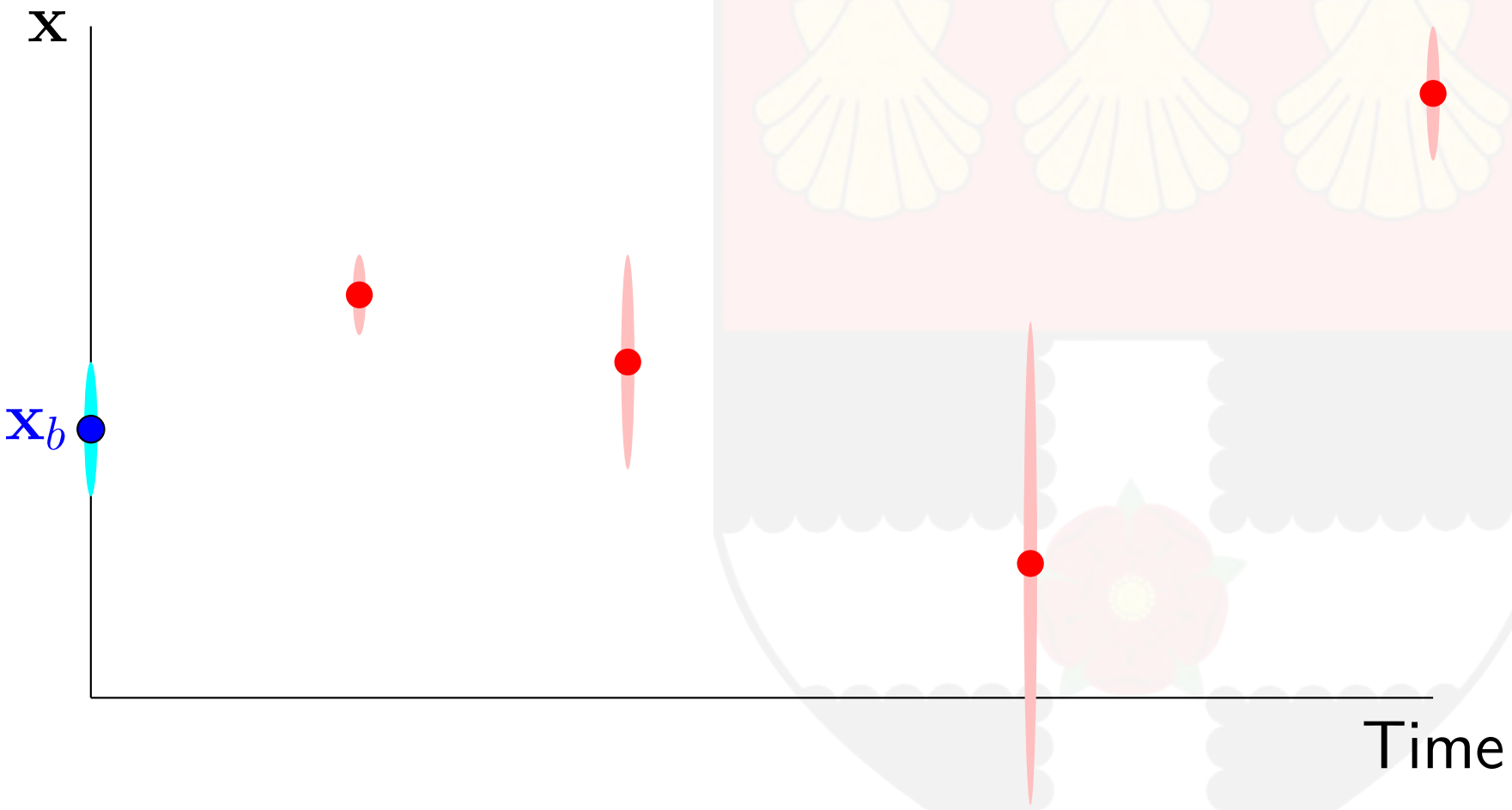
Data Assimilation
Research Centre

Optimal interpolation

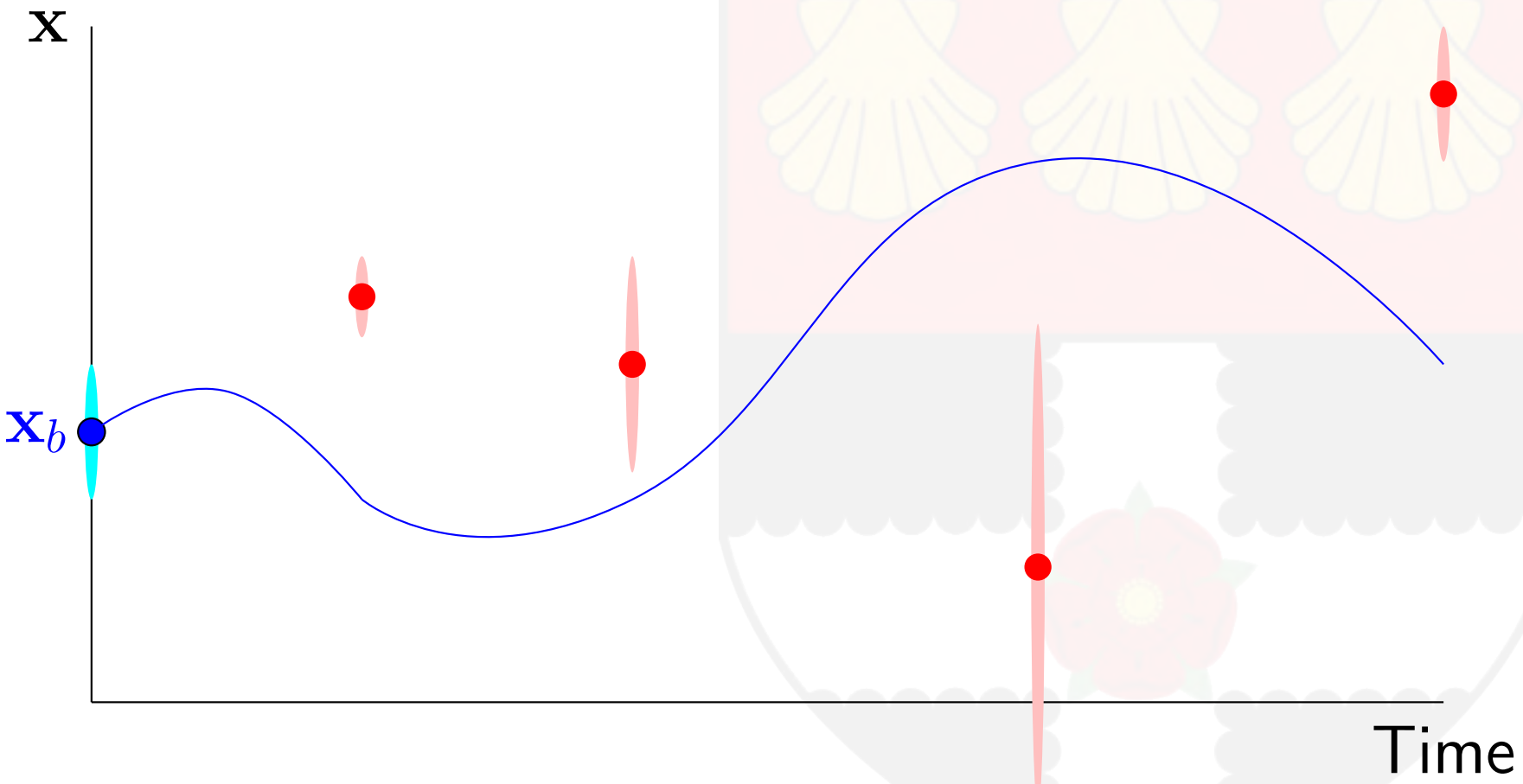
Optimal interpolation

Optimal interpolation

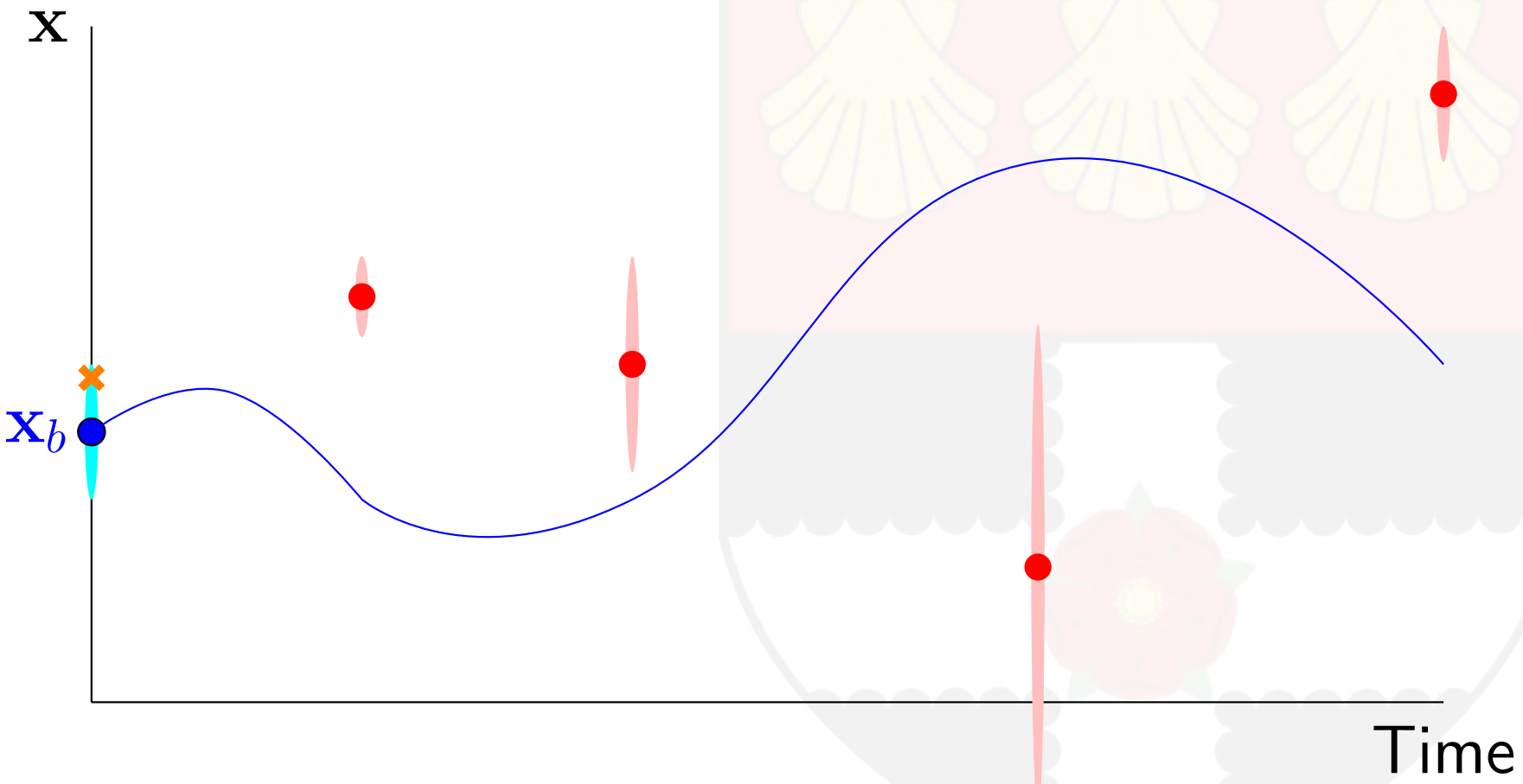
4D Variational Assimilation



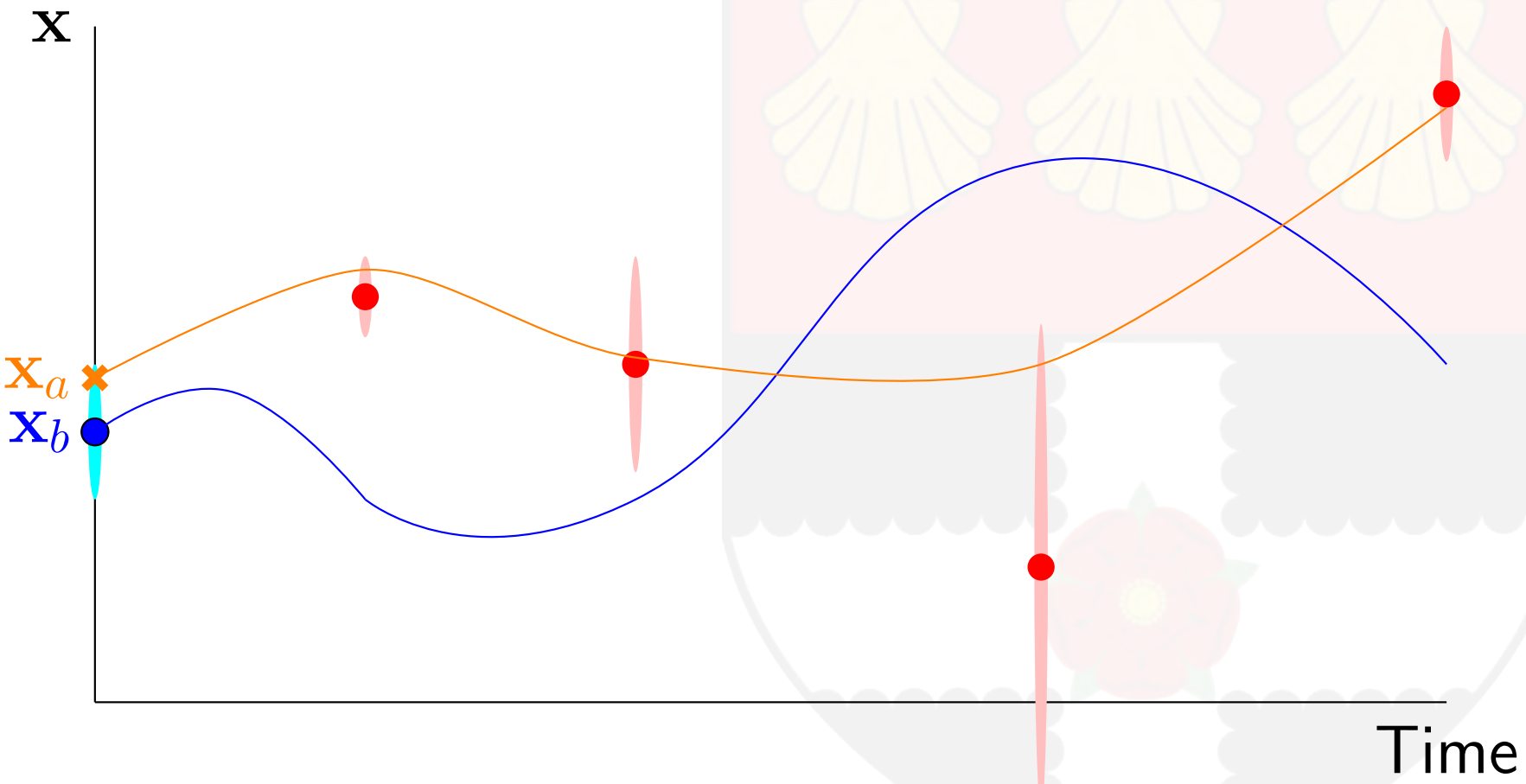
4D Variational Assimilation



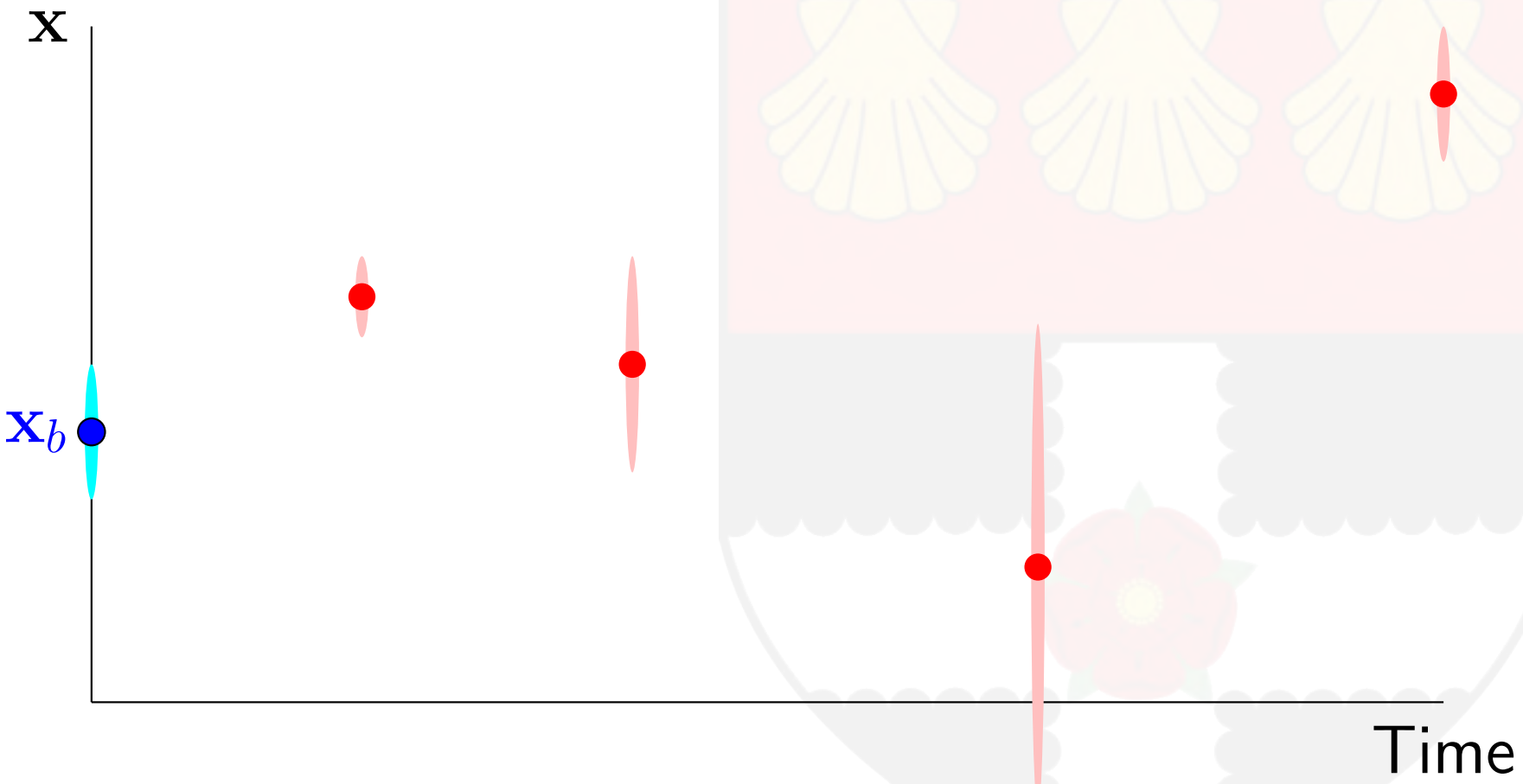
4D Variational Assimilation



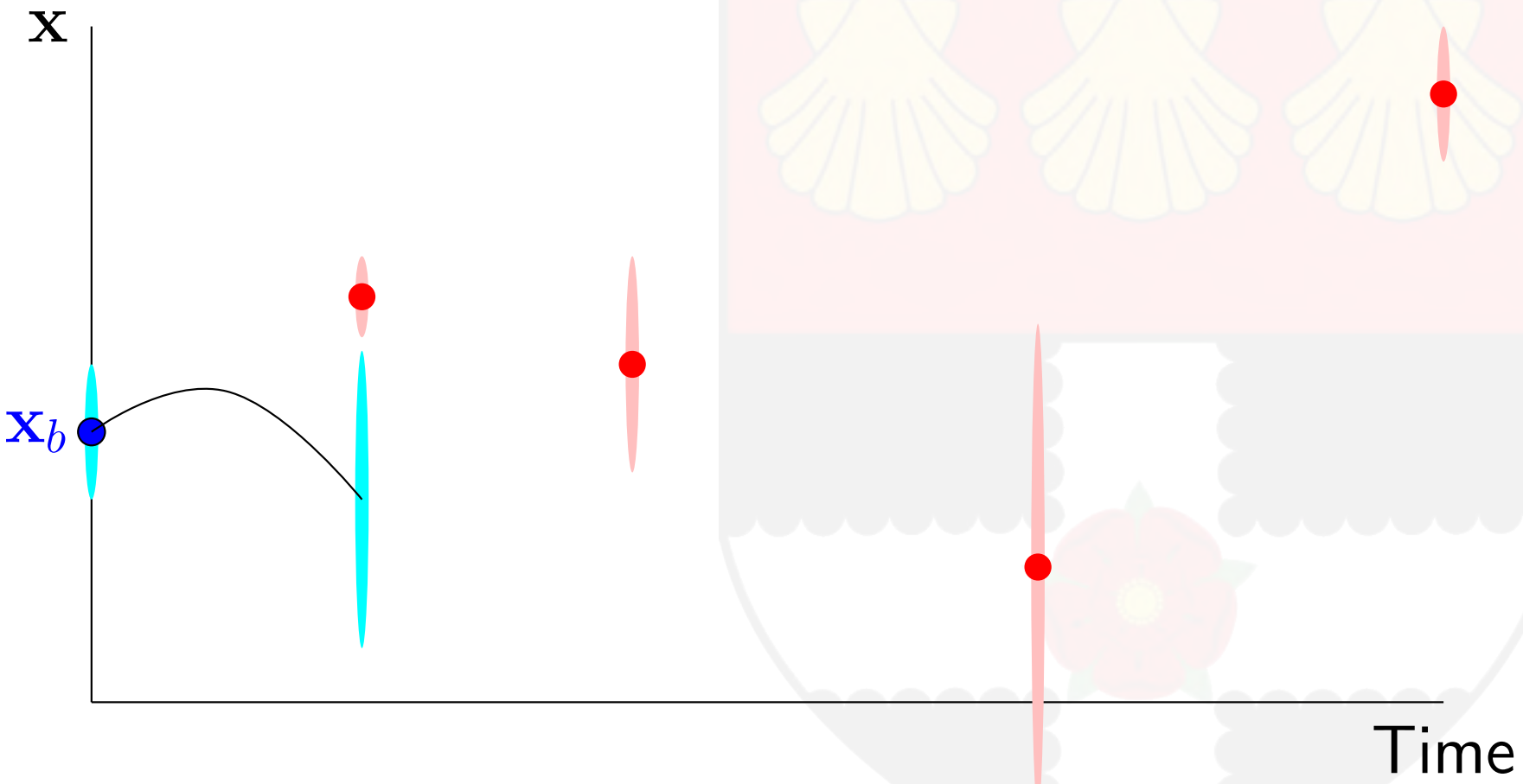
4D Variational Assimilation



Ensemble Kalman Filter



Ensemble Kalman Filter



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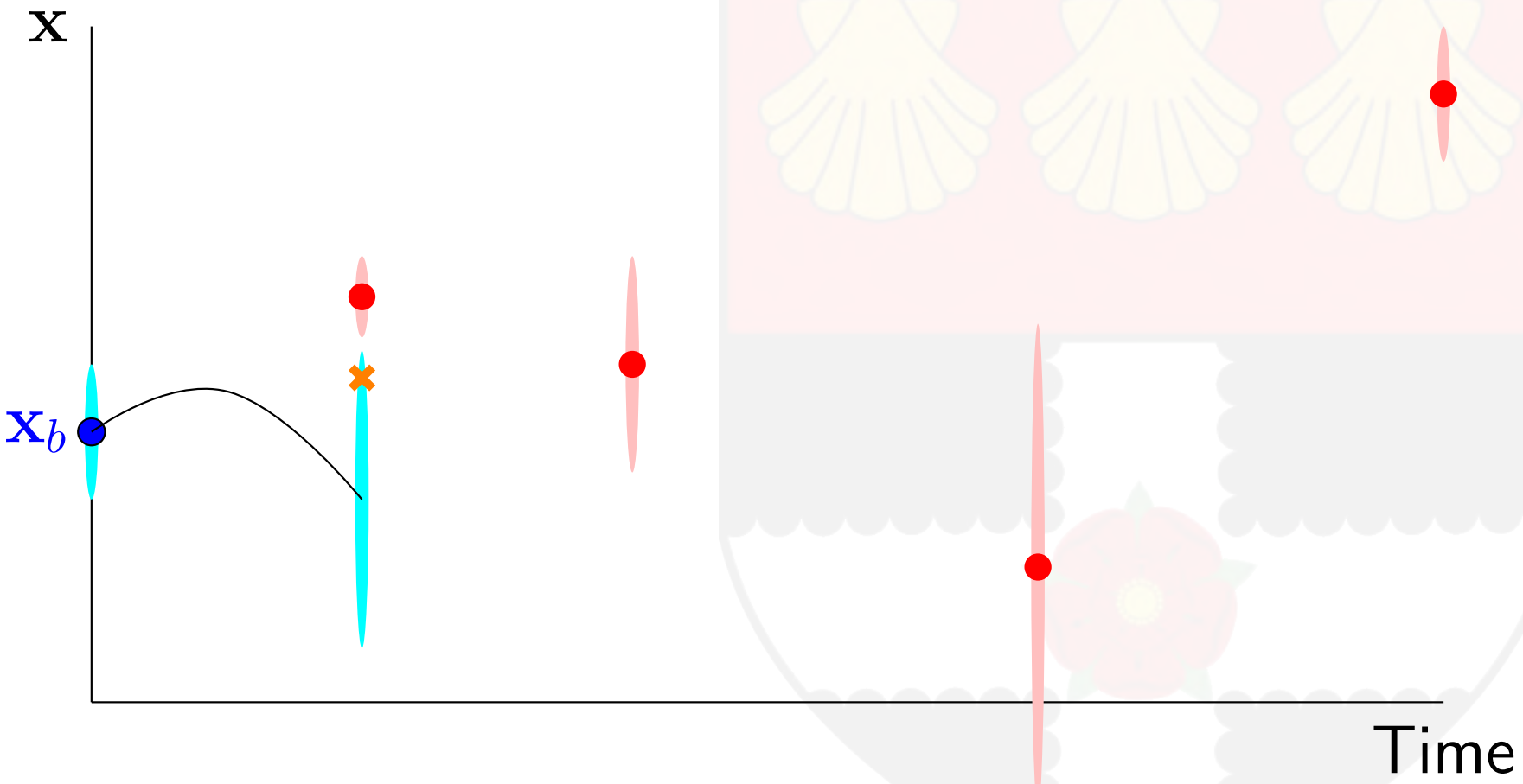

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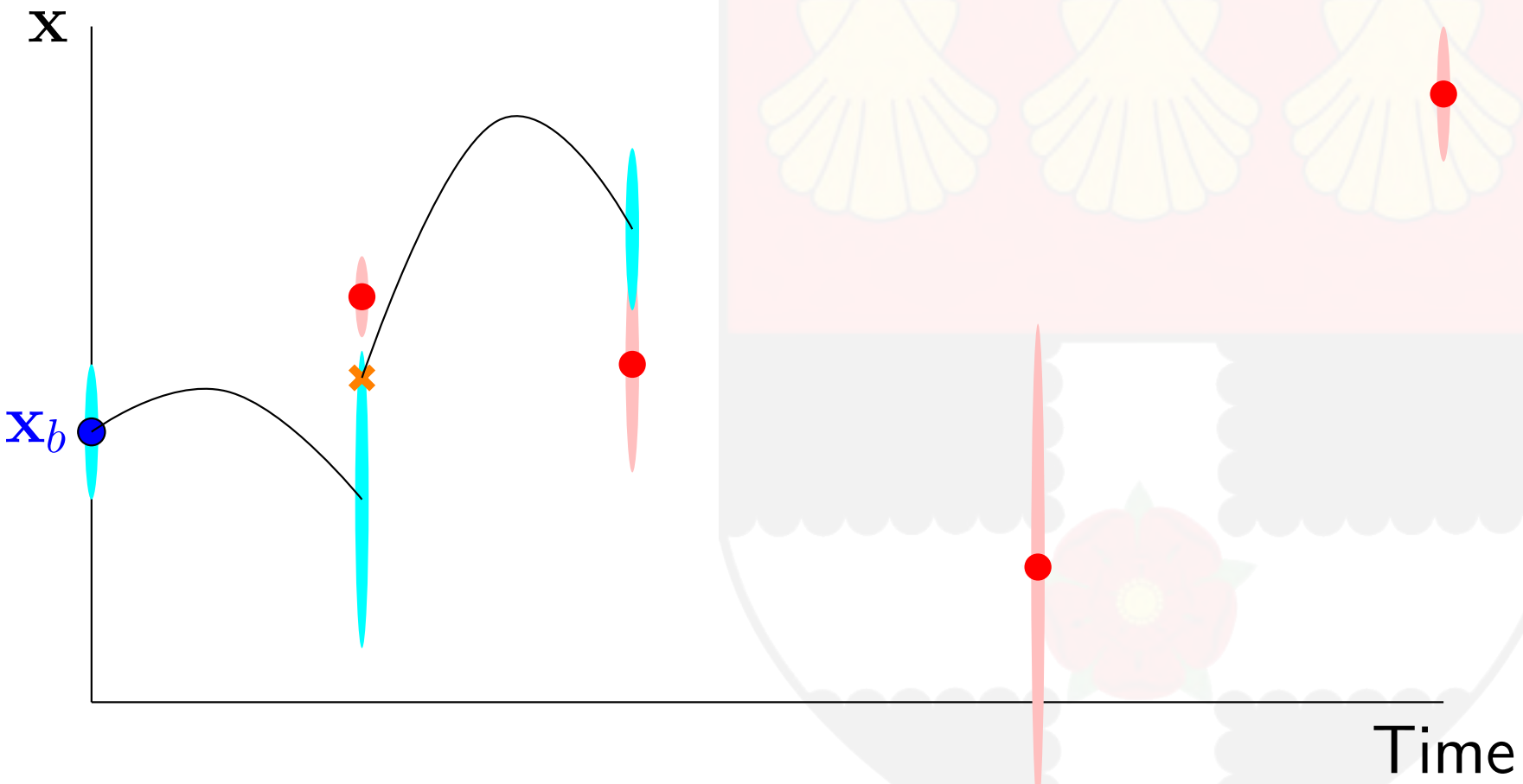

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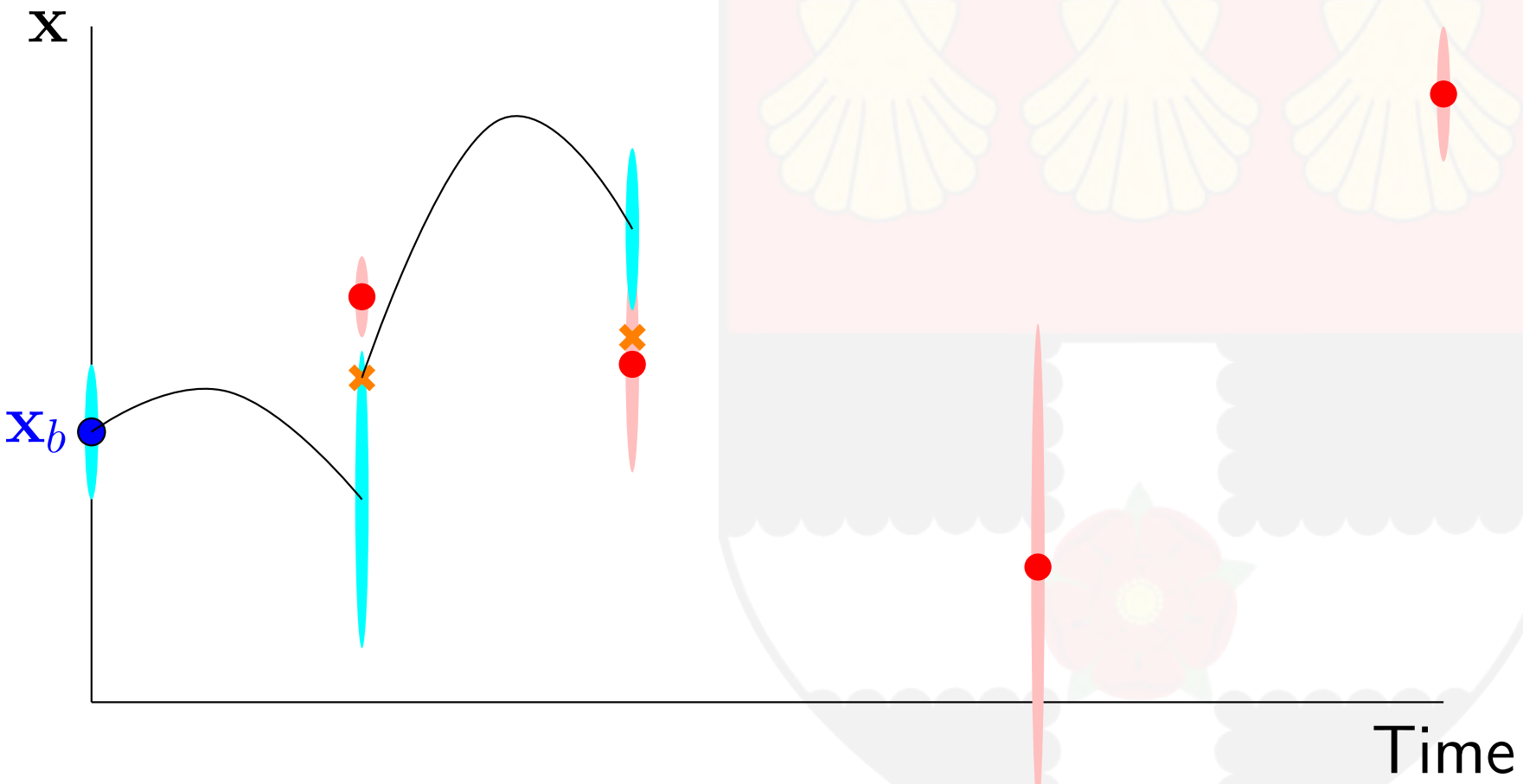

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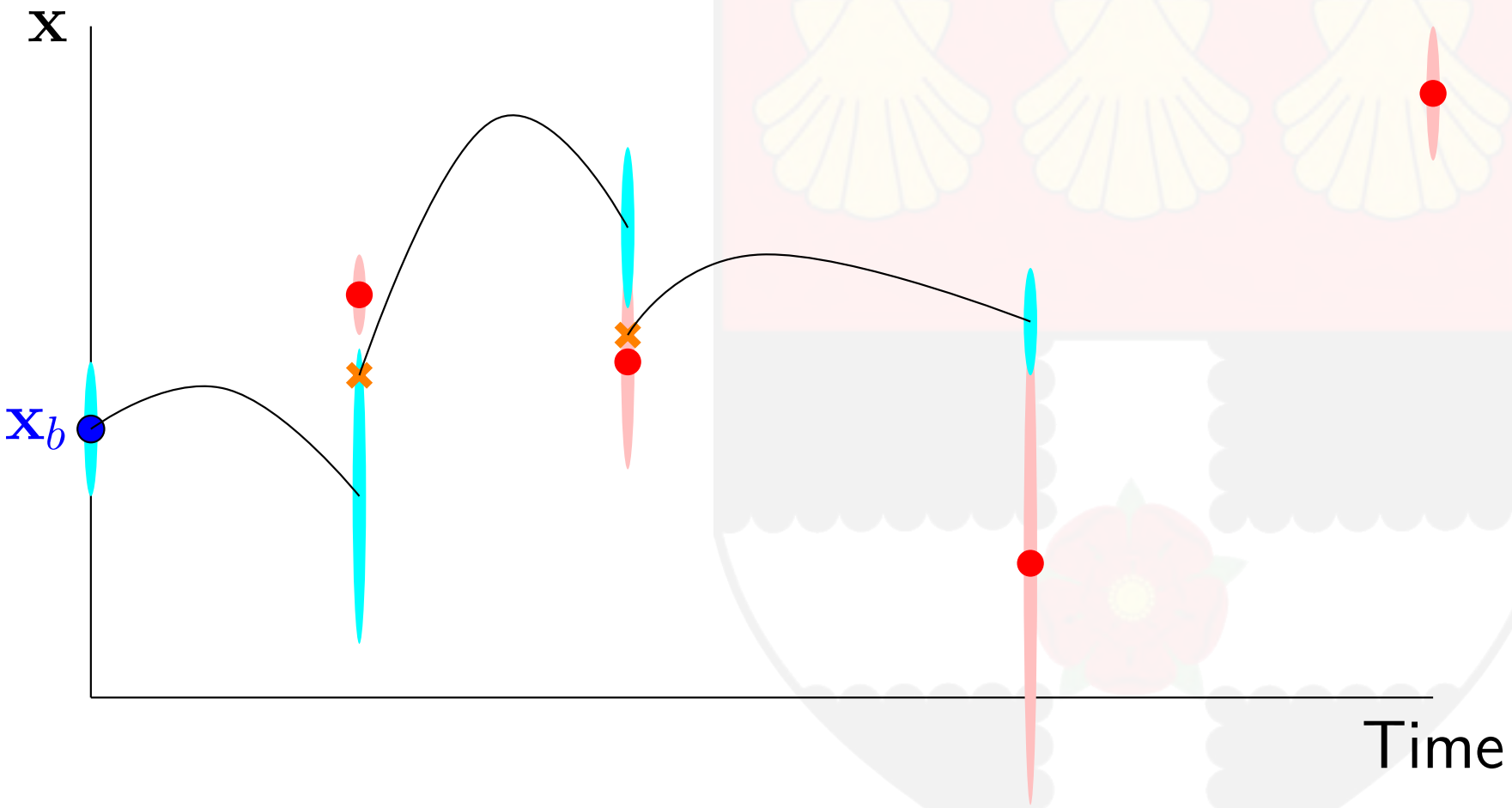

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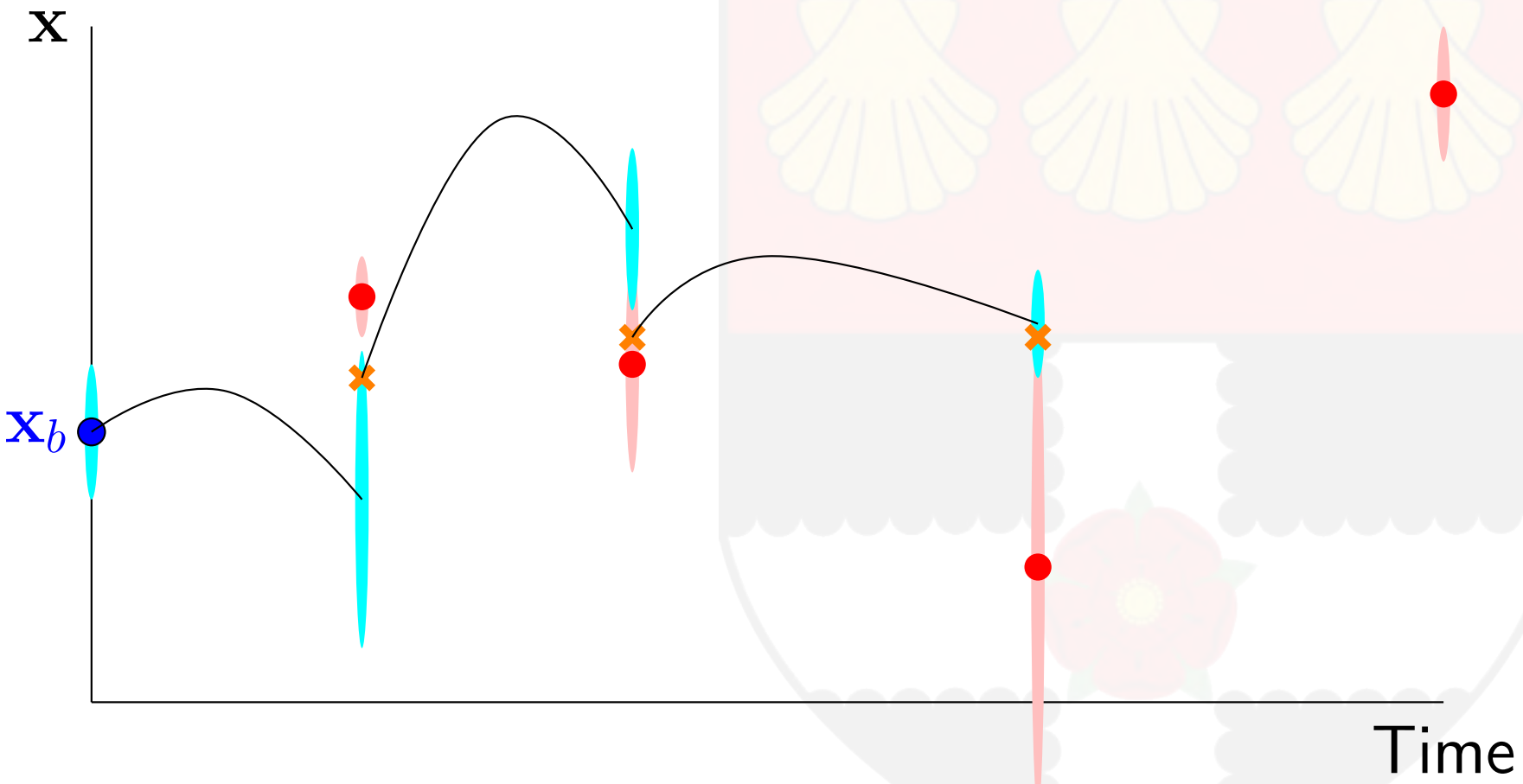

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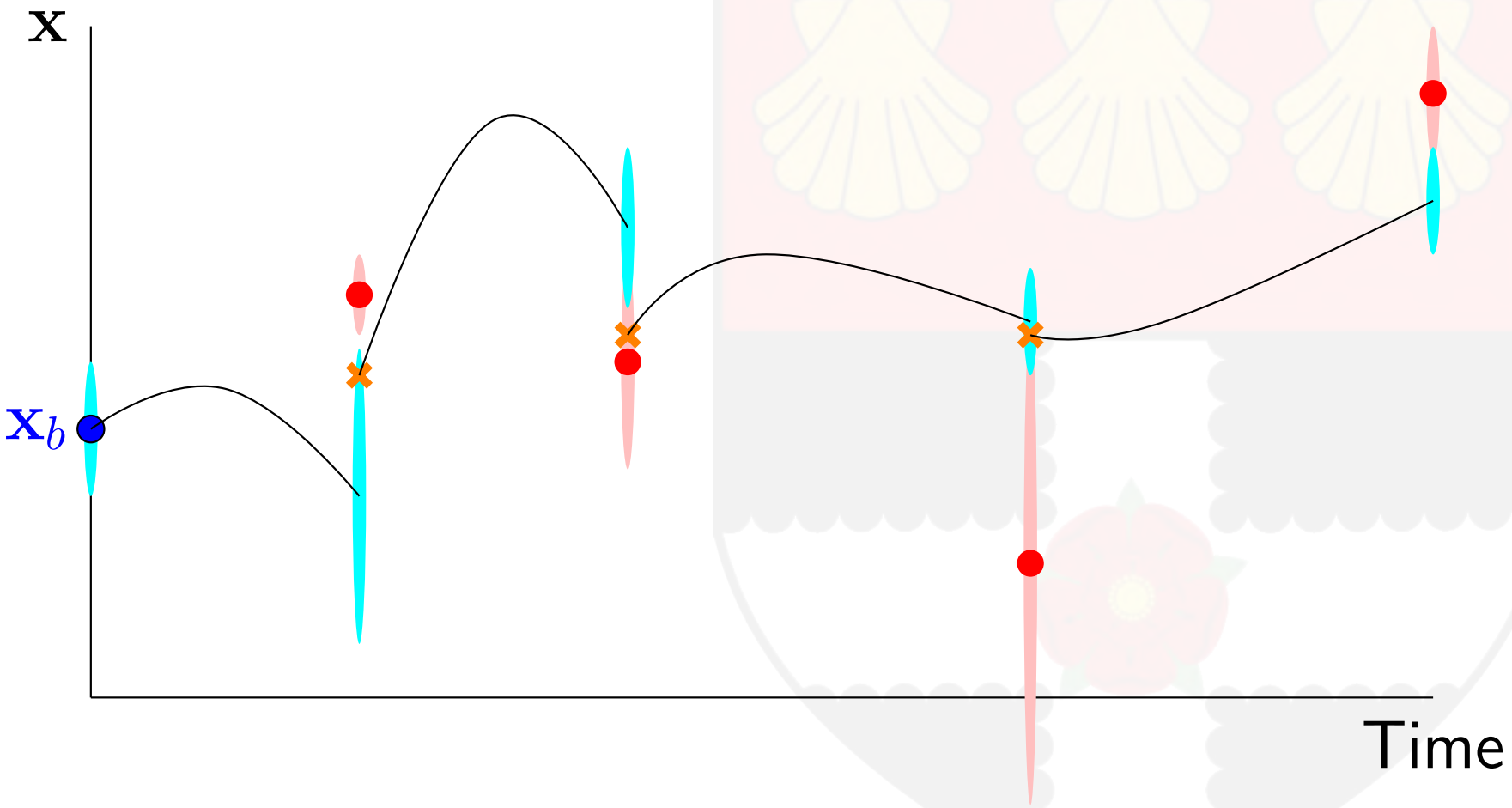

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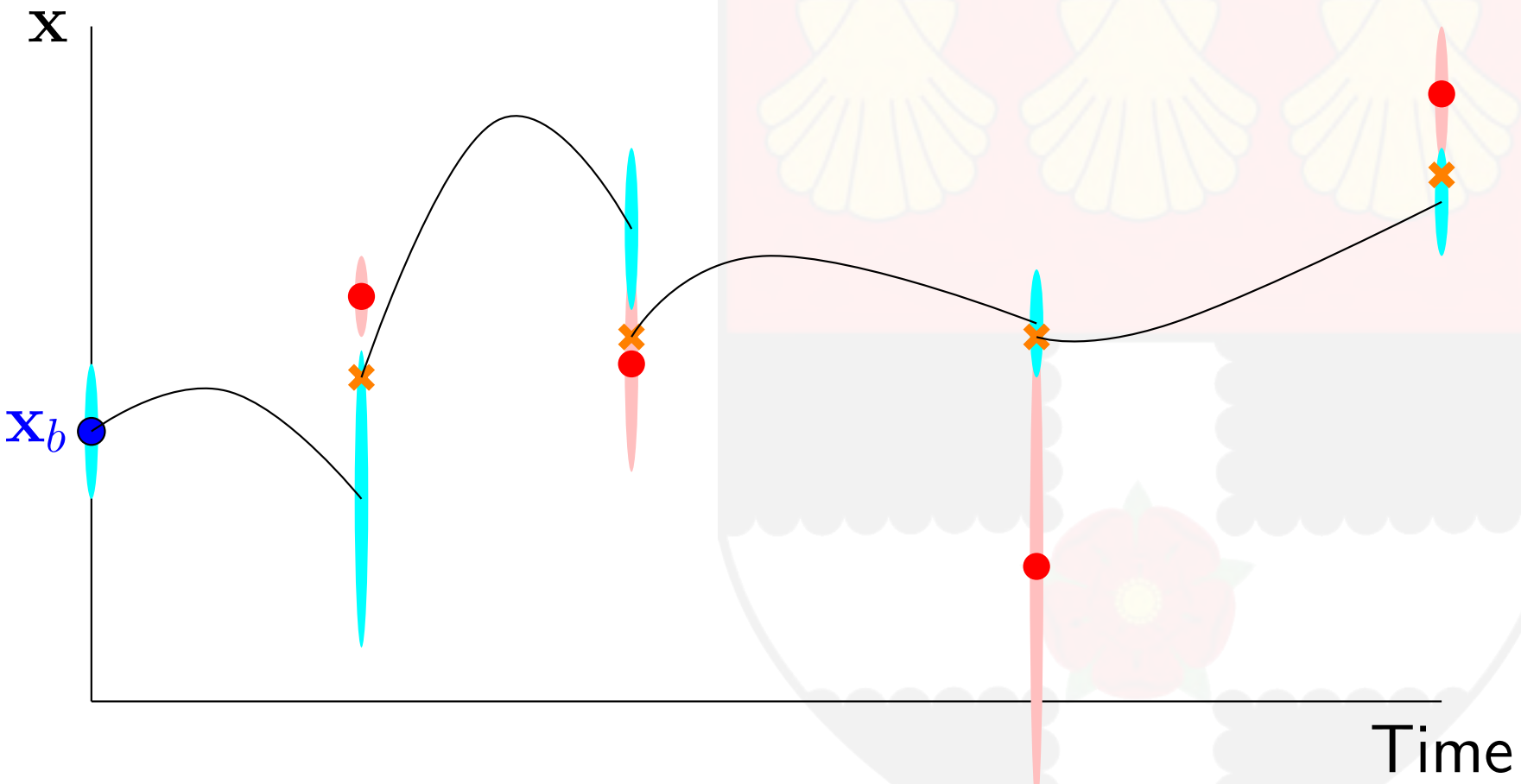

Ensemble Kalman filter difficulties

- Gaussian assumptions
- Undersampling
  - ∼ localisation
  - ∼ inflation
- Filter degeneracy