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Can soap films be used as models for mortality studies?

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#### **ACCEPTED MANUSCRIPT**

\*Highlights (for review)

#### **HIGHLIGHTS**

- We present experimental data on the life time statistics of ensembles of over 2200 soap films.
  - The data show features of human mortality data:
    - Large initial failure rate analogous to infant mortality
    - Exponential increase of failure rate for long times, corresponding to the Gompertz law.
- This work suggests using ensembles of soap films as a model system for understanding the statistics of mortaliy data.

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