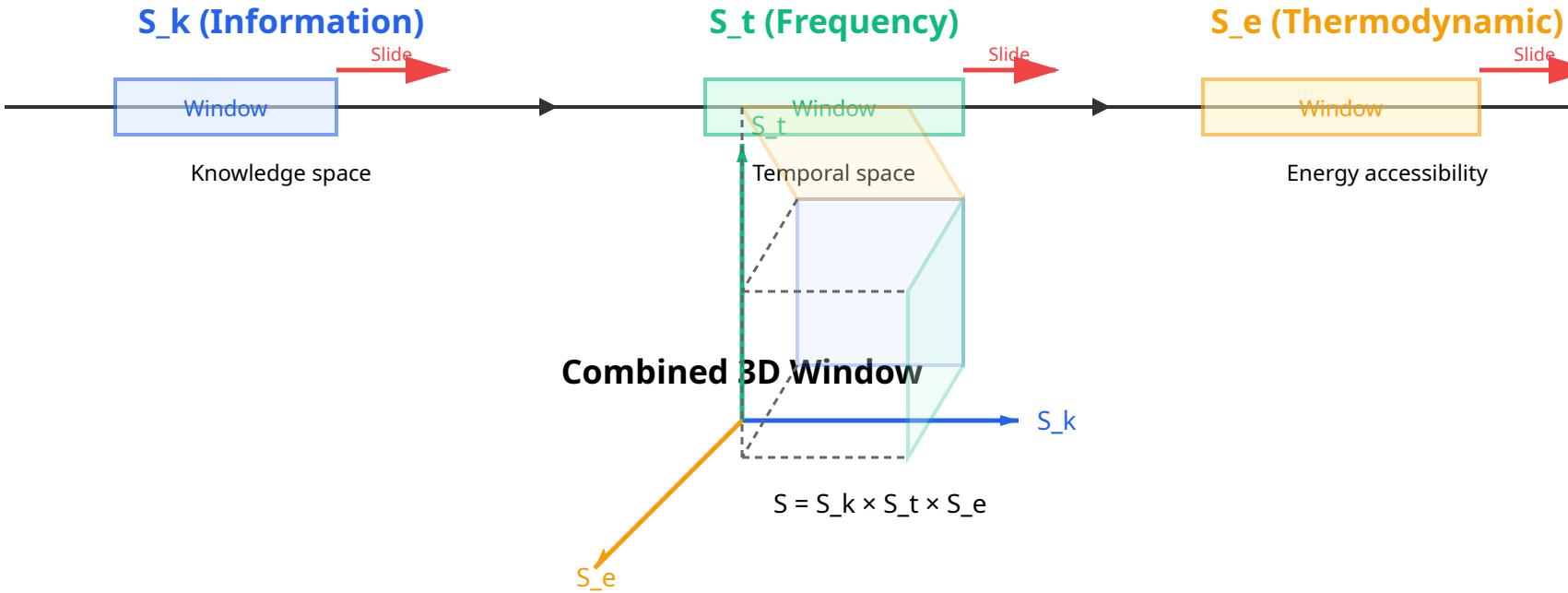


# Tri-Dimensional S-Entropy Navigation



## Automatic Harmonic Selection

- $S_k$  : Information content filter
- $S_t$  : Frequency accessibility window
- $S_e$  : Thermodynamic feasibility constraint

Optimal harmonic:  $\omega^* = \text{argmax}_{\{\omega \in S\}} \text{Utility}(\omega)$

## BMD Filtering

Select sufficient subset from  
 $\sim 10^6$  to  $10^{12}$  configurations  
per observable frequency

Polynomial-time navigation of exponentially large state spaces  
Tri-dimensional windows + BMD filtering = Efficient computation