

# Everything Everywhere All at Once

## Traversing the Multiverse of Probabilistic Optimal Control via Entropy Regularization

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### Prologue



Gesundheit.

Probabilistic optimal control has exploded into a rich **mosaic of distinct modeling paradigms**. However, differing mathematical foundations and terminology have built a theoretical **Tower of Babel**.



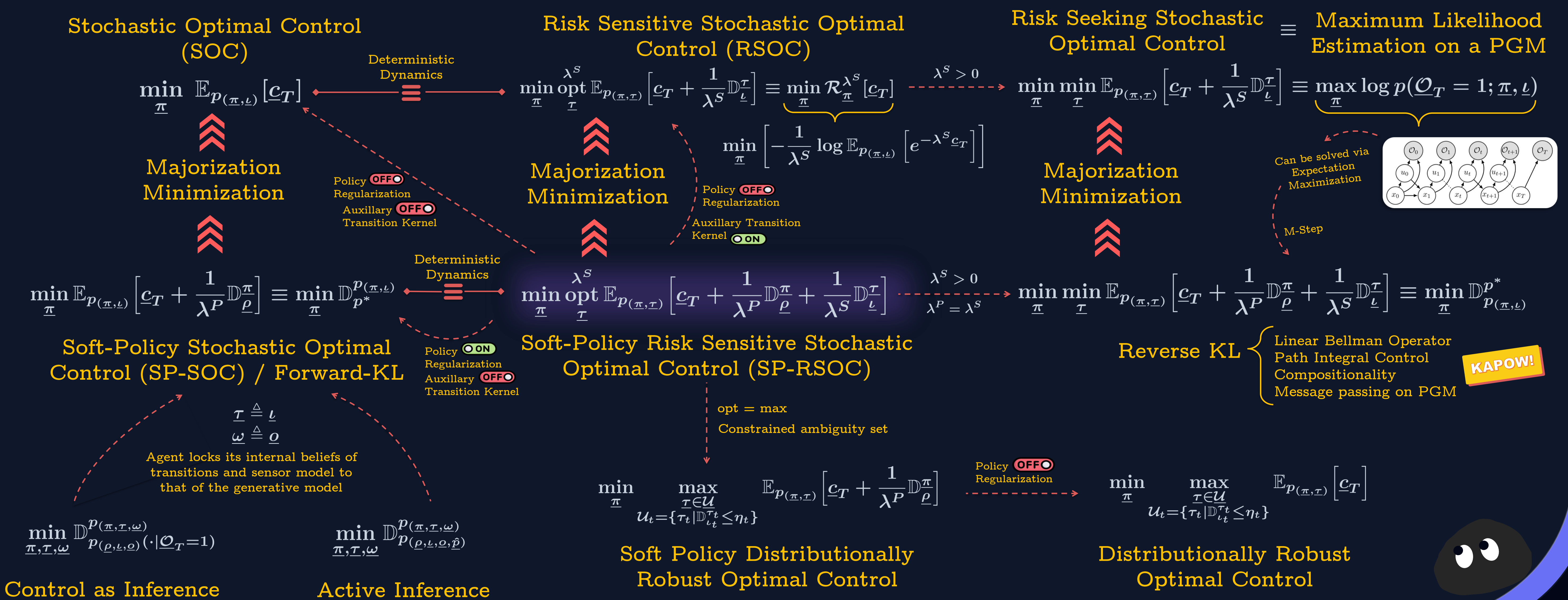
### The Odyssey

We introduce a **central problem** formulation. By simply tweaking specific dials – activating or deactivating **entropy penalties** on the **policy** and auxiliary **transition kernel** – one can systematically recover many major paradigms.

### THE EVERYTHING BAGEL MAP

We traverse the multiverse of Probabilistic Optimal Control  
The secret to universe-jumping?

### ENTROPY REGULARIZATION

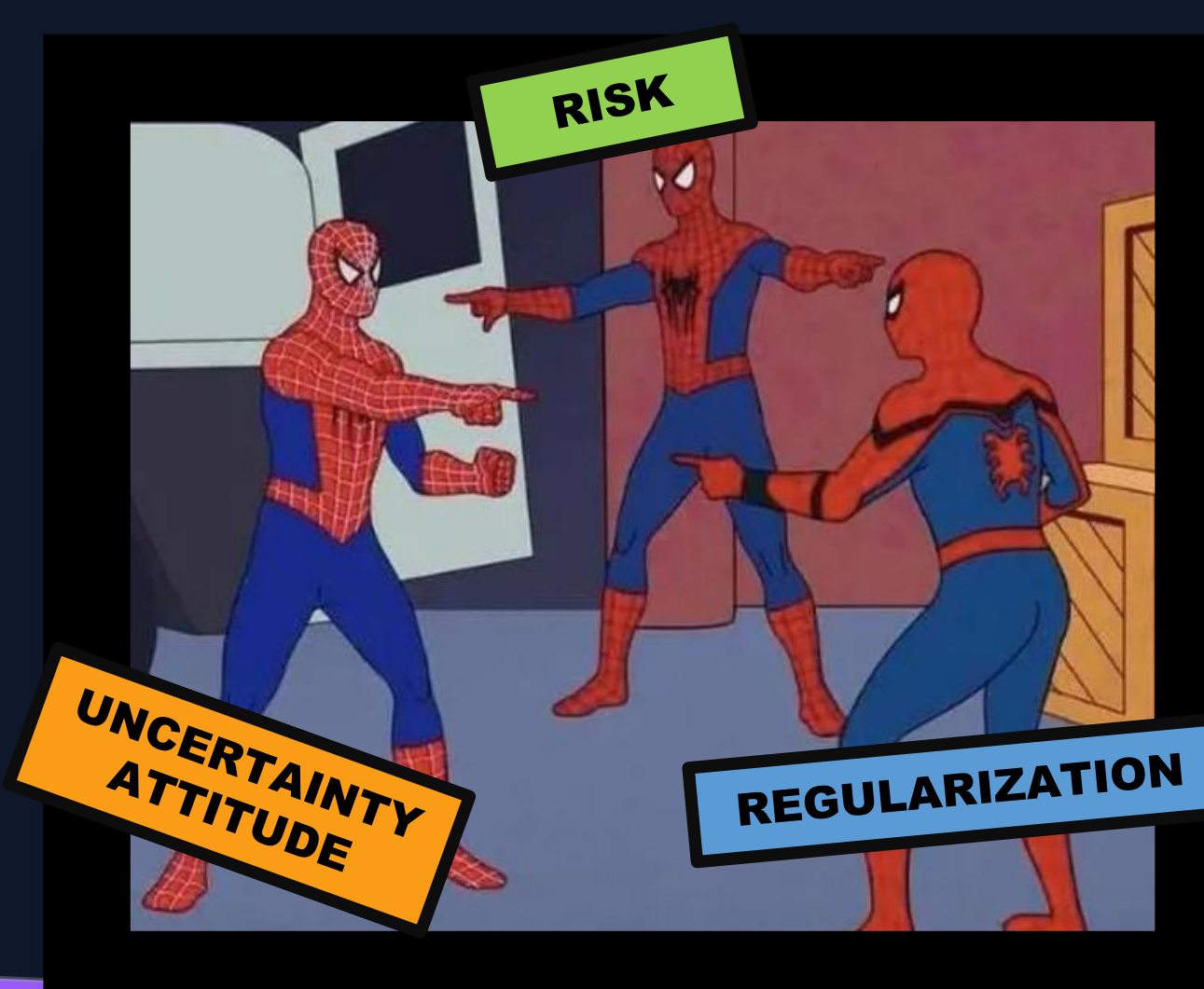


### TL;DR

By showing that disparate paradigms in probabilistic optimal control can be jumped to by tweaking the dials of a **central problem**, we provide a **cohesive view** – one that can be used to systematically **translate theoretical properties** and **transfer algorithmic insights** across isolated silos.

### Epilogue

If you don't remember the equations, remember this →



Here's our paper. So, cite us maybe..

