

# Three Questions

## Three Questions

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Sean Carroll, a physicist at Caltech, says that any physical theory describing a certain system, classical or quantum, consists of the answers to three questions:

- 1. What are the possible states of the system?*
- 2. What can we observe about the system?*
- 3. How does the system evolve?*

I will answer these questions in the context of Meta Learning.

### **1. What are the possible states of the system?**

There are in ML, three possible states that refer to the emotional field: a. Quasi-symmetric b. Partially asymmetric c. Totally asymmetric These states are directly linked to team performance. High and top performance teams show quasi-symmetric emotional fields. Medium performance teams show partially asymmetric fields. Low performance teams show totally asymmetric fields. The more symmetric a field is, the more sustainable energy it generates.

### **2. What can we observe about the system?**

There are six observables in ML: a. Inquiry and advocacy b. Other-focus and self-focus c. Positive feedback and negative feedback

### **3. How does the system evolve?**

It evolves according to a set of coupled nonlinear differential equations which generate the different symmetry regimes of the emotional field.

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