

## **Dynamical Climate Prediction and Application**

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### **Abstract:**

Seasonal-to-decadal climate prediction is a challenging topic to evaluating future climate risks to society. Its applications potentially cover the wide range of sectors such as, water resources, renewable energy, forestry, agriculture, fisheries, and coastal planning. To achieve the skillful climate predictions on seasonal-to-decadal timescales, we require a better understanding of the mechanisms driving climate variability and change, as well as the developments of climate prediction systems.

In my talk, I would like to share our recent achievement of climate prediction research with you. The topic includes the development of state-of-the-art climate model, main outcome of near-term climate prediction in IPCC fifth assessment report, and new scientific findings of decadal climate predictability. An application of climate prediction to risk management would be also discussed.