

Development and application of universal machine learning interatomic potential



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Place: The 3rd Seminar Room, R1 bldg. Suzukakedai campus
(R1棟2F 第三会議室)

Abstract: Recently, universal machine learning interatomic potentials (uMLIPs) have attracted increasing attention because they can provide reasonable accuracy for diverse applications without fine-tuning. As large, high-quality quantum mechanical datasets continue to be developed and released to the public, uMLIPs are rapidly evolving toward greater universality and higher fidelity.

In this presentation, focusing on the SevenNet family, I will discuss the current status and future directions of uMLIPs. I will also introduce new research avenues enabled by uMLIPs.