**ISYF 2024 Keynote Lecture**

**Speaker:** Professor Duncan Haldane

(speaker bio attached in separate document)

**Title:** Entanglement, Quantum Mechanics and Topology

**Synopsis:** Much recent work in quantum mechanics centers on understanding and using non-local “entanglement” to store and process information. In particular, “topological quantum states” of matter show the exciting possibilities that quantum mechanics permits, and which may be harnessed in future information-processing technologies.