

# Magnon Transport and Magnonic Topological Insulators

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The physics of spin and magnon transport in magnetic insulating systems has attracted a lot of attention in recent years due to fundamental reasons but also due to promising applications such as low-dissipation devices. In my talk I will focus on the magnon counterparts of electron transport [1-4] such as the Wiedemann-Franz law, the Josephson effect in magnon BECs, persistent magnon currents, magnon quantum Hall conductance, and magnon topological edge states in Skyrmion lattices, and the quantum dynamics of Skyrmions [6].

## References

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