Title of the lecture:
Non-Hermitian systems: topological structure in familiar systems

Format:
TBA

Contents
1. Physical motivations for distinguishing between Hermitian & non-Hermitian system
2. Non-Hermiticity in quantum mechanics and in classical mechanics
3. Non-Hermitian perturbation theory
4. Topology of the eigenvalue spectrum
5. An introduction to the fundamental group
6. Prospects for topological control in non-Hermitian systems

References:
3. R. Gilmore, Catastrophe theory For Scientists And Engineers (Dover) - just Chapter 14: "Jordan-Arnol'd Canonical Form".
The Wikipedia articles: "Fundamental group" and "Braid group".