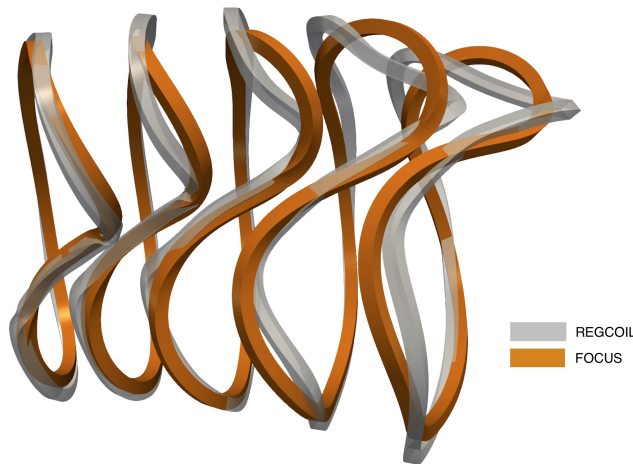


Improvements to the stellarator concept can be realized via advancements in theory and computation



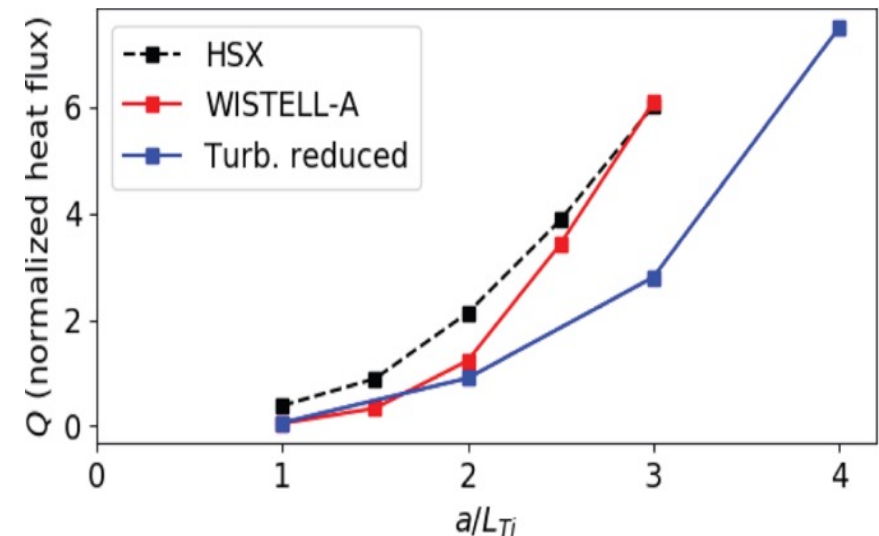
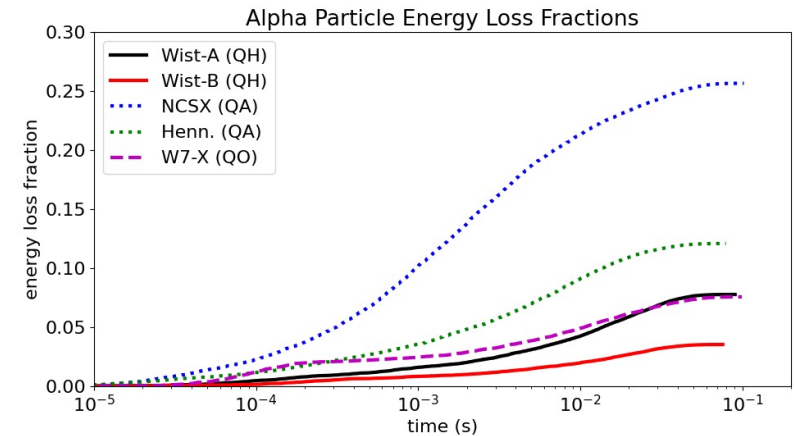
- Several recent advances are reported in the following topical areas aimed at:
 - Improving energetic ion confinement
 - Reducing turbulent transport
 - Reducing coil complexity
 - Providing novel optimization methods
 - Developing new 3D MHD tools

New computational tools simplify 3D coil design and Improves reconstruction of target boundary



- Advances in physics understanding improves stellarator optimization efforts

Reduced turbulent transport and EP losses realized in new stellarator designs



Hegna, IAEA FEC 2021
University of Wisconsin-Madison