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Chimera states: limits and open questions DANIEL ABRAMS,
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Hulman Institute of Technology — “Chimera states” are surprising patterns that
can be found in systems of identical coupled oscillators, where synchrony and in-
coherence seem to stably coexist in a spatially asymmetrical state. The existence
and stability of chimera states in a variety of settings relevant to real-world systems
remains an active topic of research. Here I summarize what is known and present
preliminary results for interesting limits including small and large- N , small and large
coupling lag, as well as near-local and near-global coupling.

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