Chimera states: limits and open questions DANIEL ABRAMS, Northwestern University, MARK PANAGGIO, Northwestern University and Rose Hulman Institute of Technology — “Chimera states” are surprising patterns that can be found in systems of identical coupled oscillators, where synchrony and incoherence 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.