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Jameson Cahill* (jcahill@math.duke.edu), 2018 JERSEY AVE, Durham, NC 27707. *Stability in phase retrieval.*

One of the key issues in phase retrieval is stability of reconstruction in the presence of noise. This problem has been approached from a variety of angles by many different researchers in both the finite and infinite dimensional settings. In this talk we will survey what has been done up to this point, and present some some new results about stability for general algorithms. (Received January 20, 2015)