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Kristin Elizabeth Luery* (kristin.luery@uc.edu). *Composition operators with closed range.*

We show that a composition operator on the Hardy space of the disk is bounded below if and only if it is bounded below on the Szegő kernel functions. This provides a direct geometric correspondence between the conditions of Cima, Thomson, and Wogen from 1974; Zorboska from 1994; and Lefèvre, Li, Queffélec, and Rodríguez-Piazza from 2012 for a composition operator to have closed range. (Received September 04, 2013)