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**Trieu Le\*** (trieu.le2@utoledo.edu). *Inner functions in weighted Hardy spaces over the unit disk*. Preliminary report.

Inner functions play an important role in function theory and operator theory on the Hardy space over the unit disk. Recent works of Bénéteau et al. and of Seco study inner functions in the more general setting of weighted Hardy spaces. Motivated by their results, we discuss several characterizations of such inner functions and investigate a method to construct analogues of finite Blaschke products. (Received August 27, 2018)