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Incorporating genus into the Heegaard Floer differential.

Utilizing work of Hutchings, one can incorporate the genus of holomorphic curves into the Heegaard Floer differential of the Honda-Kazez-Matic description of the Heegaard Floer complex associated to an open book decomposition. We will describe how to use this to get an improved contact invariant as well as present a few examples. (Received September 12, 2016)