Resumé:

The Generalized Cesàro operator $S_g : \mathcal{H}(\mathbb{D}) \to \mathcal{H}(\mathbb{D})$ is defined by

$$S_g f(z) = \frac{1}{z} \int_0^z f(\omega) g(\omega) \, d\omega.$$

In the case that $g(z) = \frac{1}{1-z}$, the operator S_g is the classical Cesàro operator. We discuss the spectral picture and the spectral decomposition properties of certain generalized Cesàro operators on Hardy and weighted Bergman spaces.