In this talk, we will define the Iwasawa invariants of links and give two asymptotic formulae for the first homology groups of $\mathbb{Z}_d^p$-covers of links in rational homology 3-spheres, which are generalizations of the Iwasawa type formulae proven by Hillman–Matei–Morishita and Kadokami–Mizusawa. We will also provide examples of these formulae. Moreover, when $d = 2$, considering the twisted Whitehead links, we will explain that Iwasawa $\mu$-invariants can be arbitrary non-negative integers. This is a joint work with Jun Ueki.

REFERENCES