

Metallicity profiles store information about the history of galaxy formation. These patterns are the result of the complex interplays between a variety of physical processes such as gas inflows/outflows, SN/AGN feedback, galaxy mergers and interactions. Using a set of simulations of the CIELO project, we follow the assembly history of central galaxies and were able to identify some of the most important events that participate in their formation. We studied the properties of the gas involved and relate these events to the characteristics of the metallicity distribution, identifying a variety of gradients and breaks in the abundance profiles.