

## **Abstract**

I will briefly describe the open problem of chemical abundance variations and multiple populations in globular clusters, where at least two stellar populations coexist, one with chemistry similar to that of the Galactic halo population, and the other one with altered abundances of several light elements. I will then review the possible solutions proposed so far, with their strengths and weaknesses, focussing on chemical evolution scenarios, i.e., those that foresee the multiple populations as subsequent stellar generations, the earliest ejecting the gas from which the latest form. I will then present the results of a recent work we did, in which we explore the possibility that the order in which the populations form, in an attempt to solve some of the open problems faced by current evolutionary scenarios proposed so far.