



Contribution ID: 22

Type: **invited talk**

## Nucleosynthesis in rotating massive stars and abundances of metal-poor stars

*Thursday, 24 May 2018 11:00 (30 minutes)*

Rotation largely affects the nucleosynthesis in massive stars, especially at low-metallicity. It triggers exchanges of material between different burning zones, leading to a strong overproduction of both light (e.g. C, N) and heavy (e.g. Sr, Ba) elements. After reviewing the interplay between rotational mixing and nucleosynthesis, I will discuss how surface chemical abundances of long-lived low mass metal-poor stars can provide hints on the nature of the early generation of massive stars, especially on their rotation and explosion. Particular attention will be paid to the peculiar Carbon-Enhanced Metal-Poor stars and their different formation scenarios.

**Primary author:** Mr CHOPLIN, Arthur (Geneva Observatory, Geneva University)

**Presenter:** Mr CHOPLIN, Arthur (Geneva Observatory, Geneva University)

**Session Classification:** Session M5