

Stellar evolution along the HR diagram with Gaia



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OB stars and associations with Gaia (Invited)

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OB stars are the luminaries of the Milky Way but their lives are brief. As such, they provide unique problems and opportunities for their analysis with Gaia, as their luminosities, intrinsic colors, and spatial distribution are quite different from the dominant cooler populations. In particular, most OB stars are born in (unbound) OB associations and Gaia can be used to address two issues: [a] is that “most” an “all”? and [b] are associations dissolved clusters? In this talk I will present recent studies of OB stars, clusters, and associations with Gaia that address those issues and others, such as the IMF for massive stars, the tracing of spiral arms, the origin of runaway stars, and how to (correctly) deal with extinction.

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Session Classification: Overview on Gaia data/products and their use