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Non-LTE stellar physics and its applications

Monday 6 June 2022 15:30 (30 minutes)

One of the biggest assumptions in modelling stellar emission has been an assumption of local thermodynamical equilibrium, also known as LTE. While still widely spread, it has been shown to significantly bias results of stellar modelling, for example derived abundances.
In this talk I will focus on what is known as Non-LTE modelling - modelling stellar radiation without assuming LTE.
I will touch on its costs and requirements and will mainly focus on how it changes our understanding of individual stars and stellar populations, within and outside of the Milky Way.

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