

Colóquios do CRAAM Centro de Rádio Astronomia e Astrofísica Mackenzie

A Journey across Hertzsprung-Russel Diagram with 3D Hydrodynamical Simulations of Cool Stars



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Nowadays, the development of the observational instruments is so high that became very sensitive to the details of stellar physics. The interpretation of the stellar surfaces images, the fundamental parameters, the stellar variability and the hosting planet detection & characterisation needs realist simulations of stellar convection. In this context, three-dimensional radiative hydrodynamics simulations of cool stars are essential to a proper and quantitative analysis of these observations. I will present how these simulations across the Hertzsprung-Russel diagram have been (and will be) crucial to prepare and interpret the spectrophotometric, interferometric, astrometric, and imaging observations.

7 de junho de 2024, às 9h (em inglês)

Palestra online via Zoom | Meeting ID: 526 392 4715 | Passcode: 2zgmh8 https://us06web.zoom.us/j/5263924715?pwd=aVluVnBWdXBZcm0xUEttU0q5VzlLQT09