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3D non-LTE abundances in metal-poor stars

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Stellar abundance measurements are heavily model dependent, and for late-type stars, and especially for metal-poor late-type stars, the accuracy is often limited by the use of one-dimensional (1D) hydrostatic model atmospheres and the assumption of local thermodynamic equilibrium (LTE). Recently it has become feasible to relax both assumptions simultaneously, i.e. to perform 3D non-LTE spectroscopic analyses. In this talk I shall discuss the physics of this more accurate method and review recent developments, including our latest results for carbon, oxygen, and iron abundances in the metal-poor halo.

Affiliation

Talk/Poster

Talk

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