Hydrodynamic model atmospheres for hot stars

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Recent non-LTE models for expanding atmospheres, accounting for iron group line-blanketing and clumping, show a radiative acceleration which supplies a large part of the driving force of hot star winds. Aiming at the calculation of hydrodynamically consistent atmosphere models, we developed a method for the solution of the hydrodynamic equations, taking into account the radiation pressure from the comoving-frame radiation transport. In this work we describe our approach for the solution of the hydrodynamics and present first examples of consistent wind models for hot stars.