Instabilities in radiation driven stellar winds

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Although basic properties of radiatively driven stellar winds of hot stars are successfully described with the theory of stationary wind, some observations like strong X-Ray emission, extended absorption throughs in P-Cygni profiles can not fit this theory exactly.

Including of the radiation driven instabilities seems to be necessary for the description of these effects. Focusing on Rayleigh-Taylor type instabilities, determinating of their growth rate and the influence of the Kelvin-Helmholtz instability, we summarize importance of this type instabilities on the radiatively driven stellar wind of hot stars.