

COMPUTED SPECTRAL LINE VARIATIONS FOR OBLIQUE NONRADIAL PULSATORS

Dietrich Baade (1) and Werner W. Weiss (2)

(1) The Space Telescope European Coordinating Facility,
European Southern Observatory, Karl-Schwarzschildstr. 2,
D-8046 Garching, Fed. Rep. Germany

(2) Institute for Astronomy, Türkenschanzstrasse 17,
A-1180 Wien, Austria

ABSTRACT. Spectral line profiles are computed for nonradially pulsating CP2 stars. For a range which currently is thought to be typical for these stars, the influence of six parameters on the line profiles is considered: mode order l and degree m , pulsation velocity amplitude, the angle between the rotation and pulsation axis, the angle between the rotation axis and the line-of-sight, and the phase angle of the rotation. In view of the expected low signal-to-noise ratio of observational data it is investigated to what extent easily measurable, simple quantities can still be useful in discriminating between different modes.

(The full text will be submitted for publication in *Astronomy and Astrophysics*, Supplement Series.)