Pulsational crossover in Ap stars

Gautier Mathys

European Southern Observatory

Circular polarisation observations of a number of Ap stars show evidence for occurrence of crossover effect that cannot be accounted for by the standard interpretation in terms of combination of Zeeman effect and of rotational Doppler effect. I propose a tentative explanation of these observations in terms of "pulsational crossover", and discuss the new diagnostic possibilities that may be opened by observations of this effect.