

β Coronae Borealis: a combined interpretation of the magnetic quantities obtained through the moment technique, and of the observations of broadband linear polarisation

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Abstract. We present a model for the well-known CP star β CrB consistent with observations of the mean longitudinal field, crossover, mean quadratic field, mean field modulus, and broadband linear polarisation. We find that β CrB, like most CP stars, exhibits a complex magnetic structure, which may not be fully accounted for even by a second-order multipolar expansion.