How well do we understand the wind properties of the FS CMa subclass of B[e] stars?

D. Korčáková¹⁾, S. N. Shore²⁾, A. Miroshnichenko⁵⁾, S. V. Zharikov³⁾, T. Jeřábková¹⁾, N. Dvořáková¹⁾, V. Votruba⁴⁾, N. Manset⁶⁾, & M. Šlechta⁴⁾

FS CMa objects are near main-sequence B-type stars 1) Astronomical Institute, Charles University, V Holešovičkách 2, CZ-180 00 Praha 8, Czech Republic; kor@sirrah.troja.mff.cuni.cz whose spectra show the emission lines from permitted and **forbidden** ²⁾ Dipartimento di Fisica "Enrico Fermi", Università di Pisa, Largo B. Pontecorvo 3, I-56127, Pisa, Italy; steven.neil.shore@unipi.it transitions of neutral and singly ionized atoms. Infrared radiation from ³⁾ Instituto de Astronomía, Universidad Nacional Autónoma de México, Apartado Postal 877, 22830, Ensenada, Baja California, México ⁴⁾ Astronomical Institute of the Academy of Science of the Czech Republic, Fričova 298, CZ-251 65 Ondřejov, Czech Republic them is dominated by the circumstellar dust emission. These signatures show, that ⁵⁾ Department of Physics and Astronomy, University of North Carolina at Greensboro, Greensboro, NC 27402, USA a huge circumstellar envelope has to be present. The stars are variable at almost any timescale. The low density plasma, as well as its dynamics, sets the medium into the extreme case of non-LTE conditions. ⁶ CFHT Corporation, 65-1238 Mamalahoa Hwy, Kamuela, Hawaii 96743, USA

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asphericity and/or patchy of the circumstellar environment reduces the efficiency of the bolometric redistribution of UV flux.



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