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1063 Figure 14: Variation of Mössbauer ^{57}Fe hyperfine parameters for sample Ae75#20 (hd₂₅ae₇₅)

1064 with temperature: (a) isomer shift for all Fe species, (b) quadrupole splitting for all Fe

1065 subcomponents (c) fraction of iron in the Fe^{0+} state (for total iron = 100 %); (d) variation of1066 Fe^{2+} quadrupole splitting distribution curves with temperature. Error bars are smaller than the

1067 symbols if not visible. Lines fitted to the data are guides to the eye.

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