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Vogel, A.K. and Jennings, Eleanor S. and Laurenz, V. and Rubie, D.C. and Frost, D.J. (2018) The dependence of metal-silicate partitioning of moderately volatile elements on oxygen fugacity and Si contents of Fe metal: Implications for their valence states in silicate liquids. *Geochimica et Cosmochimica Acta* 237 , pp. 275-293. ISSN 0016-7037.

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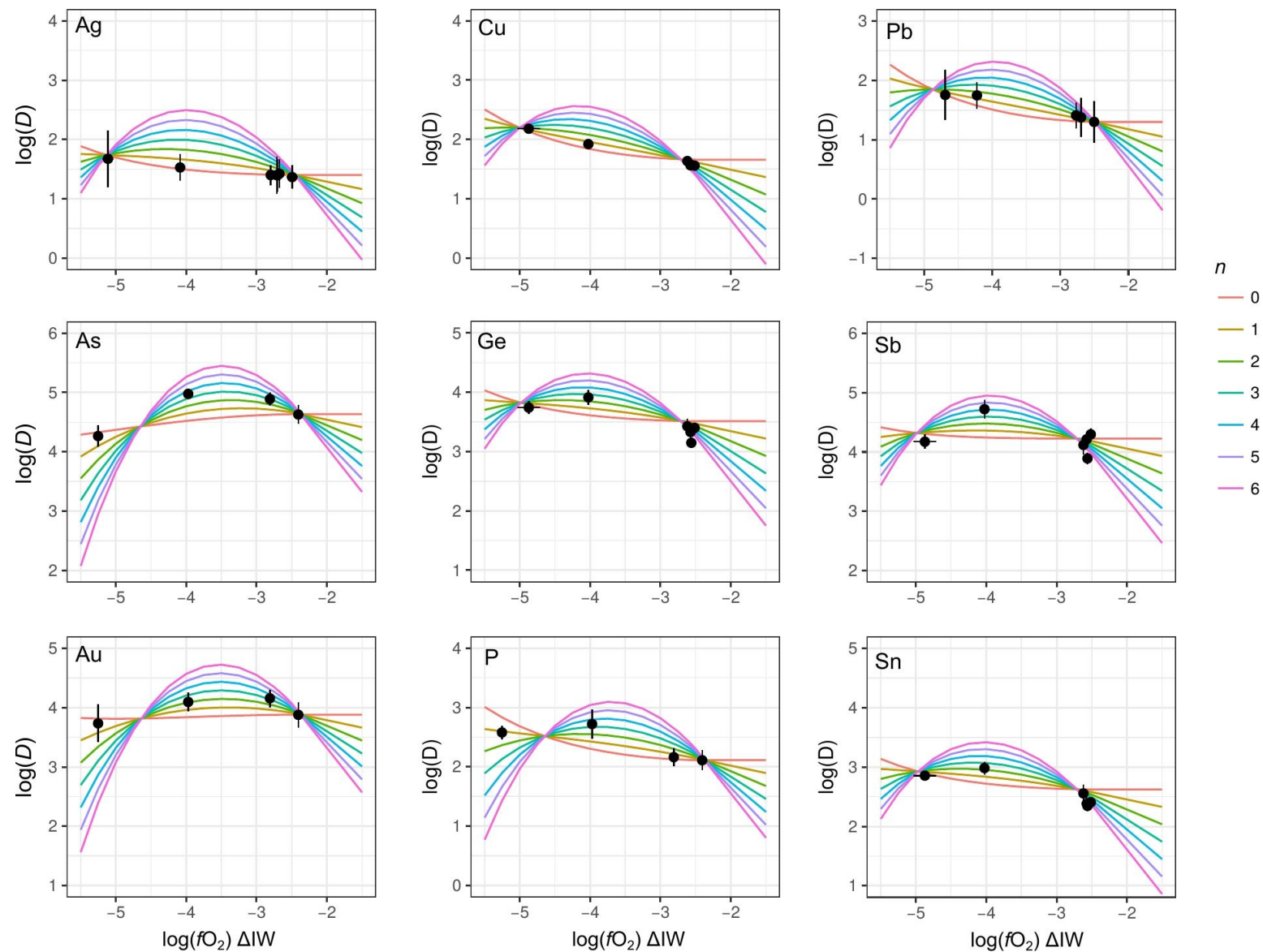


Fig. S1. $\log(D_M)$ as a function of ΔIW for all the elements that are not depicted in Fig. 5. Each curve is calculated for a different valence state n , indicated by the numbers on the left- or right-hand side of the graphs. The curves are predicted from X_{Si} , n , and the best-fit ε_M^{Si} for that particular valence state. X_{Si} is calculated from ΔIW according to the polynomial curve of Fig. 3, where $X_{Si} = 0$ above the fO_2 threshold shown by the vertical dashed line. ΔG° for each curve is calculated at 2600 K from the lowest X_{Si} experiment, meaning that all curves must intersect (or nearly intersect) at the highest ΔIW point by definition.