Apogee-Colors-Dwarfs TEFF LOGG 6500 4.5 6250 6250 4.0 6000 6000 3.5 3.5 True LOGG 2.5 1 5750 5500 - 5750 3.0 5500 2.5 5250 2.0 5250 - 2.0 5000 1.5 5000 - 1.5 4750 1.0 4750 1.0 0.5 4500 5000 2.5 4.5 5750 6000 2.0 3.0 4750 5250 5500 6250 1.5 3.5 4.0 Predicted LOGG **Predicted TEFF** FE\_H  $\mathsf{ALPHA}_\mathsf{M}$ 0.50 0.4 0.3 0.2 0.25 0.3 0.0 0.2 0.00 0.2 True ALPHA\_M Д<sub>1</sub> –0.25 Д –0.50 -0.20.1 0.1 -0.40.0 0.0 -0.6-0.75-0.1-0.8-0.2-1.00-0.2-1.0-0.3-1.250.15 -0.8 -0.6-0.4-0.20.0 0.2 -0.05 0.00 0.05 0.10 0.20 -1.0Predicted FE\_H Predicted ALPHA\_M C\_FE CA\_FE 0.4 0.4 0.6 0.2 0.4 0.2 0.4 0.2 0.2 0.0 True CA\_FE 0.0 0.0 -0.2-0.2-0.4-0.4-0.6-0.6-0.6-0.6-0.8 -0.25 -0.20-0.15 -0.10 -0.050.00 0.05 0.10 -0.050.00 0.05 0.10 0.15 0.20 0.25 Predicted CA\_FE Predicted C\_FE NI\_FE N FE - 1.25 1.25 1.00 1.00 - 0.2 0.2 0.75 0.75 True NI\_FE True N\_FE 0.50 0.0 0.50 0.25 0.25 0.00 0.00 -0.25-0.25-0.4-0.50 -0.500.4 0 Predicted N\_FE 0.6 0.2 ) -0<sup>'</sup>.05 Predicted NI\_FE -0.15 0.0 8.0 1.0 -0.100.00 0.05 -0.20MG\_FE SI\_FE 0.6 0.4 0.6 0.4 0.4 0.2 0.2 True MG\_FE True SI\_FE 0.2 0.2 0.0 0.0 0.0 0.0 -0.2-0.2-0.2

-0.4

0.2

0.1

D.1 0.0 Predicted MG\_FE

-0.1

-0.4

-0.05

0.05 Predicted SI\_FE

0.10

0.15

0.00

-0.4

-0.3

<del>-</del>0.2

-0.2