=======Figure 1=======

Fig1d_powderXRD.dat	Powder XRD pattern of $DyAgSb_2$ shown in Fig. 1(d)
Fig1e_magnetizaion_001.dat	Temperature dependence of magnetization $M(T)$ for $\boldsymbol{H}$ || [001] in Fig. 1(e)
Fig1e_magnetizaion_100.dat	$M(T)$ for $\boldsymbol{H}$ || [100] in Fig. 1(e)
Fig1e_magnetizaion_110.dat	$M(T)$ for $\boldsymbol{H}$ || [110] in Fig. 1(e)
Fig1e_resistivity.dat	T dependence of longitudinal resistivity $\rho_{xx}(T)$ in Fig. 1(e)
Fig1f_magnetization_001.dat	M vs magnetic flux density B for $\boldsymbol{H}$ || [001] in Fig. 1(f)
Fig1f_magnetization_100.dat	$M(B)$ for $\boldsymbol{H}$ || [100] in Fig. 1(f)
Fig1f_magnetization_110.dat	$M(B)$ for $\boldsymbol{H}$ || [110] in Fig. 1(f)
Fig1f_magnetization_derivative_110.dat	Effective magnetic field H_{eff} derivative of M, $\mathrm{d}M/\mathrm{d}H_{\mathrm{eff}}$, for $\boldsymbol{H}$ || [110] in Fig. 1(f)
Fig1f_resistivity_001.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [001] in Fig. 1(f)
Fig1f_resistivity_100.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] in Fig. 1(f)
Fig1f_resistivity_110.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] in Fig. 1(f)
Fig1f_resistivity_fit_100.dat	Power law fit of ρ_{xx} for $\boldsymbol{H}$ || [100] in Fig. 1(f)
Fig1f_resistivity_fit_110.dat	Power law fit of ρ_{xx} for $\boldsymbol{H}$ || [110] in Fig. 1(f)

=======Figure 2=======

Fig2a_magnetization_2K.dat	M as a function of H_{eff} for $\boldsymbol{H}$ || [110] at T = 2 K shown in Fig. 2(a)
Fig2a_magnetization_6K.dat	$M(H_{\mathrm{eff}})$ for $\boldsymbol{H}$ || [110] at T = 6 K in Fig. 2(a)
Fig2a_magnetization_7K.dat	$M(H_{\mathrm{eff}})$ for $\boldsymbol{H}$ || [110] at T = 7 K in Fig. 2(a)
Fig2a_magnetization_8K.dat	$M(H_{\mathrm{eff}})$ for $\boldsymbol{H}$ || [110] at T = 8 K in Fig. 2(a)
Fig2a_magnetization_10K.dat	$M(H_{\mathrm{eff}})$ for $\boldsymbol{H}$ || [110] at T = 10 K in Fig. 2(a)
Fig2b_dif_resistivity.dat	$\Delta\rho_{xx}$ for $\boldsymbol{H}$ || [110] on the B-T phase diagram in Fig. 2(b)
Fig2b_phase_boundary.dat	Magnetic phase boundaries obtained from M measurements in Fig. 2(b)
Fig2c_resistivity_2K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 2 K in Fig. 2(c)
Fig2c_resistivity_4K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 4 K in Fig. 2(c)
Fig2c_resistivity_6K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 6 K in Fig. 2(c)
Fig2c_resistivity_7K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 7 K in Fig. 2(c)
Fig2c_resistivity_8K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 8 K in Fig. 2(c)
Fig2c_resistivity_10K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 10 K in Fig. 2(c)
Fig2c_resistivity_12K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 12 K in Fig. 2(c)
Fig2c_resistivity_fit_2K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 2 K in Fig. 2(c)
Fig2c_resistivity_fit_4K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 4 K in Fig. 2(c)

Fig2c_resistivity_fit_6K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 6 K in Fig. 2(c)
Fig2c_resistivity_fit_8K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 8 K in Fig. 2(c)
Fig2c_resistivity_fit_10K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 10 K in Fig. 2(c)
Fig2c_resistivity_fit_12K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [110] at T = 12 K in Fig. 2(c)
Fig2d_Hall_resistivity_2K.dat	Hall resistivity $\rho_{yx}(B)$ for $\boldsymbol{H}$ || [110] at T = 2 K in Fig. 2(d)
Fig2d_Hall_resistivity_4K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [110] at T = 4 K in Fig. 2(d)
Fig2d_Hall_resistivity_6K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [110] at T = 6 K in Fig. 2(d)
Fig2d_Hall_resistivity_7K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [110] at T = 7 K in Fig. 2(d)
Fig2d_Hall_resistivity_8K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [110] at T = 8 K in Fig. 2(d)
Fig2d_Hall_resistivity_10K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [110] at T = 10 K in Fig. 2(d)
Fig2d_Hall_resistivity_12K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [110] at T = 12 K in Fig. 2(d)

=======Figure 3=======

Fig3a_conductivity_calculation.dat	σ_{xx} and σ_{xy} for $\boldsymbol{H}$ || [110] calculated by two band Drude model with B dependent mobility $\mu(B)$ estimated by Eq. (3) [model 1] shown in Fig. 3(a)
Fig3b_conductivity_calculation.dat	σ_{xx} and σ_{xy} for $\boldsymbol{H}$ || [110] calculated by two band Drude model with $\mu(B)$ estimated by Eq. (4) [model 2] shown in Fig. 3(b)
Fig3ab_conductivity.dat	σ_{xx} and σ_{xy} for $\boldsymbol{H}$ || [110] shown in Figs. 3(a) and 3(b)
Fig3ab_conductivity_conventional_calc.dat	Calculated conductivities σ_{xx} and σ_{xy} for $\boldsymbol{H}$ || [110] by the two band Drude model with B independent μ in Figs. 3(a) and 3(b)
Fig3c_dif_conductivity_2K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [110] at T = 2 K shown in Fig. 3(c)
Fig3c_dif_conductivity_4K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [110] at T = 4 K in Fig. 3(c)
Fig3c_dif_conductivity_6K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [110] at T = 6 K in Fig. 3(c)
Fig3c_dif_conductivity_7K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [110] at T = 7 K in Fig. 3(c)
Fig3c_dif_conductivity_8K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [110] at T = 8 K in Fig. 3(c)
Fig3c_dif_conductivity_10K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [110] at T = 10 K in Fig. 3(c)
Fig3c_dif_conductivity_12K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [110] at T = 12 K in Fig. 3(c)

=======Figure 4=======

Fig4a_magnetization_100_2K.dat	M (H_{eff}) for $\boldsymbol{H}$ || [100] at T = 2 K shown in Fig. 4(a)
Fig4a_magnetization_100_4K.dat	M (H_{eff}) for $\boldsymbol{H}$ || [100] at T = 4 K in Fig. 4(a)
Fig4a_magnetization_100_6K.dat	M (H_{eff}) for $\boldsymbol{H}$ || [100] at T = 6 K in Fig. 4(a)
Fig4a_magnetization_100_8K.dat	M (H_{eff}) for $\boldsymbol{H}$ || [100] at T = 8 K in Fig. 4(a)

Fig4a_magnetization_100_10K.dat	M (H_{eff}) for $\boldsymbol{H}$ || [100] at T = 10 K in Fig. 4(a)
Fig4b_resistivity_100_2K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 2 K in Fig. 4(b)
Fig4b_resistivity_100_4K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 4 K in Fig. 4(b)
Fig4b_resistivity_100_6K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 6 K in Fig. 4(b)
Fig4b_resistivity_100_8K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 8 K in Fig. 4(b)
Fig4b_resistivity_100_10K.dat	$\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 10 K in Fig. 4(b)
Fig4b_resistivity_fit_100_2K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 2 K in Fig. 4(b)
Fig4b_resistivity_fit_100_4K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 4 K in Fig. 4(b)
Fig4b_resistivity_fit_100_6K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 6 K in Fig. 4(b)
Fig4b_resistivity_fit_100_8K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 8 K in Fig. 4(b)
Fig4b_resistivity_fit_100_10K.dat	Power law fit of $\rho_{xx}(B)$ for $\boldsymbol{H}$ || [100] at T = 10 K in Fig. 4(b)
Fig4c_Hall_resistivity_100_2K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [100] at T = 2 K in Fig. 4(c)
Fig4c_Hall_resistivity_100_4K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [100] at T = 4 K in Fig. 4(c)
Fig4c_Hall_resistivity_100_6K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [100] at T = 6 K in Fig. 4(c)
Fig4c_Hall_resistivity_100_8K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [100] at T = 8 K in Fig. 4(c)
Fig4c_Hall_resistivity_100_10K.dat	$\rho_{yx}(B)$ for $\boldsymbol{H}$ || [100] at T = 10 K in Fig. 4(c)
Fig4d_conductivity_100_calculation.dat	σ_{xx} and σ_{xy} for $\boldsymbol{H}$ || [100] calculated by two band Drude model with $\mu(B)$ estimated by Eq. (3) [model 1] shown in Fig. 4(d)
Fig4e_conductivity_100_calculation.dat	σ_{xx} and σ_{xy} for $\boldsymbol{H}$ || [100] calculated by two band Drude model with $\mu(B)$ estimated by Eq. (4) [model 2] shown in Fig. 4(d)
Fig4de_conductivity_100.dat	σ_{xx} and σ_{xy} for $\boldsymbol{H}$ || [100] shown in Figs. 4(d) and 4(e)
Fig4de_conductivity_100_conventional_calc.dat	Calculated σ_{xx} and σ_{xy} for $\boldsymbol{H}$ || [100] by the two band Drude model with B independent μ in Figs. 4(d) and 4(e)
Fig4f_dif_conductivity_100_2K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [100] at T = 2 K shown in Fig. 4(f)
Fig4f_dif_conductivity_100_4K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [100] at T = 4 K in Fig. 4(f)
Fig4f_dif_conductivity_100_6K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [100] at T = 6 K in Fig. 4(f)
Fig4f_dif_conductivity_100_8K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [100] at T = 8 K in Fig. 4(f)
Fig4f_dif_conductivity_100_10K.dat	$\Delta\sigma_{xy}$ for $\boldsymbol{H}$ || [100] at T = 10 K in Fig. 4(f)