Supporting Information:

Probing Excitons in Transition Metal Dichalcogenides by

Drude-Like Exciton Intraband Absorption

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Supplementary Figures



Figure S1: (a) Optical microscope image (reflection geometry) of the monolayer WS_2 sample on PDMS substrate. The area enclosed by the dashed line is identified as monolayer. (b) Contrast of the Green channel contrast along the white line in (a). The contrast of monolayer WS_2 on a thick and transparent substrate is about 8%.



Figure S2: Photoluminescence spectrum of the WS2 monolayer region under the excitation of a 405-nm continuous-wave diode laser.



Figure S3: Microscope image of the bulk WS₂ sample (yellowish part) used for the experiment (transmission geometry).



Figure S4: Experiment setup of the differential transmission measurements based on exciton intraband absorption.