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The excel file contains the raw data of all plots in the manuscript as follow:

Fig. 2d: PL and CL spectra of WSe₂ heterostructure.

Fig. 3a-e: hBN thickness-dependent CL intensity.

Fig. 4c: Position-dependent spectra taken from a selection of data points.

Fig. 5a-b: Cathodoluminescence spectra of monolayer WS₂ and MoS₂ in the van der Waals heterostructures.

Fig. S2d: AFM data of hBN thickness.

Fig. S2e: Beam current dependent cathodoluminescence spectra.

Fig. S4: AFM data of suspended sample.

Fig. S5b: Cathodoluminescence spectra showing both excitons and trions

Fig. S5c: Temperature-dependent CL spectra.

Fig. S5d: plot of the peak positions of the excitons and trions as a function of temperature.

Date of data collection: from November 2016 - May 2017

Information about geographic location of data collection: Nanyang Technological University Singapore.

Date that the file was created: November 2017