

Open Data Summary

Research data supporting “Controlling the Photonic Properties of Cholesteric Cellulose Nanocrystal Films with Magnets”**Bruno Frka-Petesic,* Giulia Guidetti, Gen Kamita and Silvia Vignolini****published in Advanced Materials* (DOI: 10.1002/adma.201701469)Open data repository address: <https://doi.org/10.17863/CAM.9517>

The data are organized and grouped in dedicated .zip files for each Figure they contribute to. All figures (ToC, Figures 1-4 and SI_1-17) are present in high resolution in each sub-folder. Software for file extensions: .mi (Gwyddion), .mat, .m and .fig (MATLAB), .blend (Blender).

ToC.	Original photographs (.jpg)
Figure 1.	Original photographs (.jpg)
Figure 2.	Original graphics 2A-F (.png, .fig) and goniometer scan data (.txt) spectrometer settings (.mat) Original photographs (Figure 2K)
Figure 3.	Original microscopy photographs (Figures 3A-L) (.png) and scale bar (.png) Bertrand lens and k -space calibration with grating (.png, .xlsx, xls)
Figure 4.	Original SEM photographs (.tif)
Figure S1.	AFM (.tiff, .mi)
Figure S2.	Titration file (.xlsx, xls, .png)
Figure S3.	Original photographs (.jpg) Sample preparation and Phase diagram (.xlsx, xls)
Figure S4.	Original photographs (.jpg) evaporation rate (.xlsx, xls)
Figure S5.	Original photographs (.jpg)
Figure S6.	Original photographs (.jpg)
Figure S7.	Original photographs (.jpg)
Figure S8.	Original photographs and schematics (.png)
Figure S9.	Original photographs and schematics (.jpg, .png)
Figure S10.	Original SEM images (.tif)
Figure S11.	Original SEM images (.tif)
Figure S12.	Original SEM images (.tif)
Figure S13.	Original SEM images (.tif)
Figure S14.	Experimental magnetic field mapped of the tilted field geometry (.xlsx, .xls) Visualization of the magnetic field for tilted field geometries (.m, .png, .fig) 3D schematic of the two magnets with the iron plate (.png, .blend) Visualization of the magnetic field for simple geometries (.pdf, .png)
Figure S15.	Computing of the magnetic field for the tilted field geometry (magnetic_field_calculated_mapping.xlsx, .xls) Computed magnetic field for the tilted field geometry (TwoMagVertAndTwoMagUpsideDown.xlsx, .xls) Script in MATLAB to create the figures (.m) Original graphic files (.fig, .png)
Figure S16.	Original figures (.fig, .png) Script in MATLAB illustrating the formula used to create the fits (.m) fit data points (.txt)
Figure S17.	Original photography (.jpg)
Figure S18.	Reflectivity spectra (.txt) and corresponding figures (.eps, .png)