

Description of Additional Supplementary Files

File name: Supplementary Movie 1

Description: Collective motion of 53 fish swimming under changing illuminance. Left: Movie recorded at 5 fps with an overhanging camera. Images are recorded in infrared, so that the lighting remains constant when the visible light changes. Top right: Polarization parameter ϕ (light blue) and milling parameter μ (red) with respect to time. The data is averaged over a rolling window of 1 sec. Bottom right: Normalized light intensity $\bar{E}$ with respect to time.