## Supplementary information

## Connecting and disconnecting nematic disclination lines in microfluidic channels

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**Movie S1**: The movie shows the electric-field-induced and flow-assisted conjunction of two disclination lines in a microfluidic channel and the reconfiguration of the two lines in response to switching off the field. The distance between the two anchoring boundaries is 500  $\mu$ m. In the "field on" state, an AC field with a frequency of 1 kHz and amplitude of 0.5 V/ $\mu$ m is applied. The nematic liquid crystal is flowing from left to right, the flow velocity in the channel center is slowly decreasing from 45  $\mu$ m/s at the beginning of the movie to 35  $\mu$ m/s at the end. Therefore, the second connecting process proceeds slower than the first.