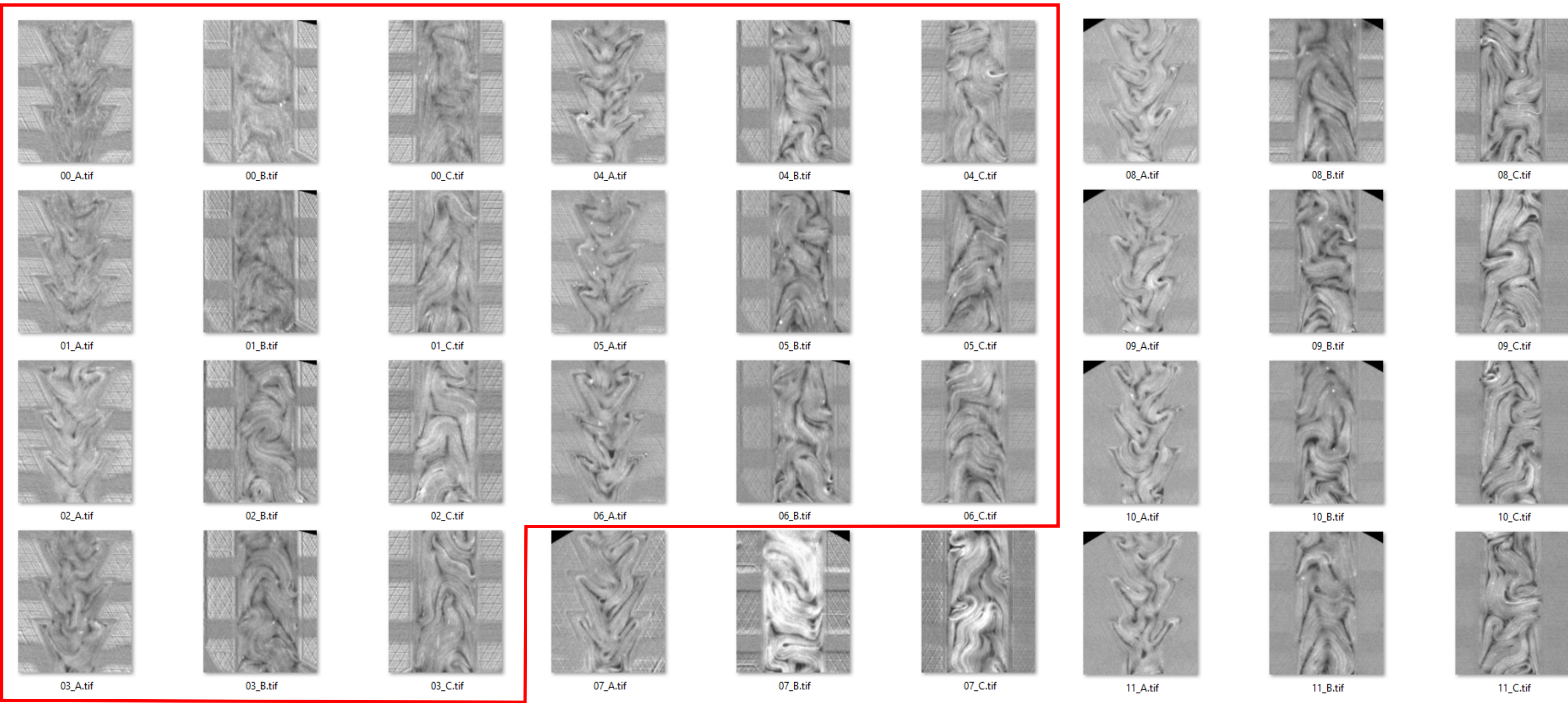
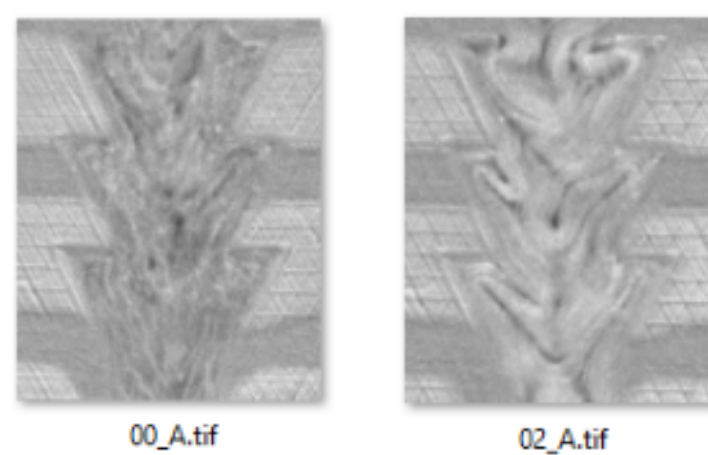


Sample 1

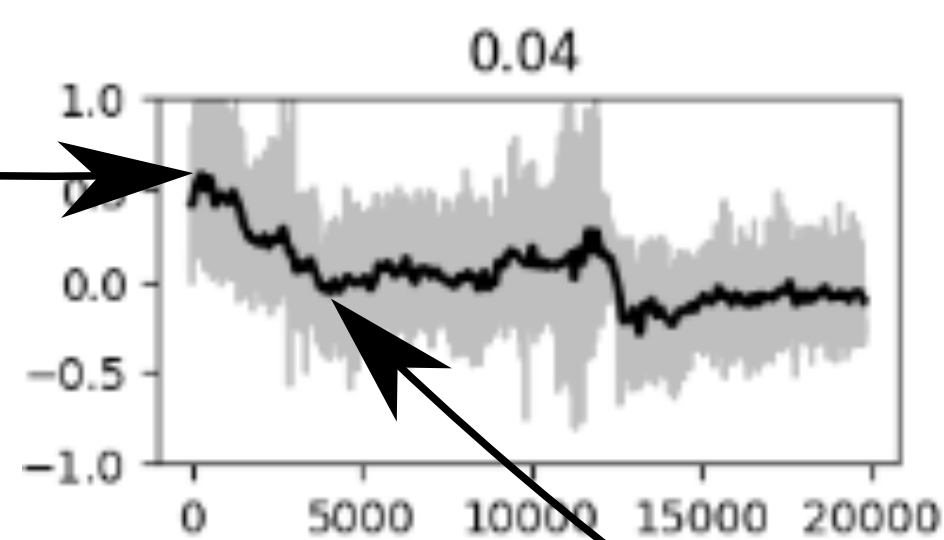


Sample 2

Sometimes, I start to take videos before the system reaches the best state. In the snapshots of images, an obvious feature of "good" active nematics is the black defect lines. Compare the two images below:



The flow rates in the premature state are usually wierd. We can check the continuity at the junction point:



When the active nematics show more black defect lines, the continuity at the junction is also satisfied better.

The development process is interesting. However, including them in the current probability analysis can obscure the main feature of the histogram. Therefore, we should do a data selection based on the continuity check, as well as visual inspection.