

# ERRATA to master thesis: *”Study of tokamak plasma turbulence by means of reciprocating probes”*

Acknowledgment to METACentrum was by mistake omitted from the Acknowledgments section. The Acknowledgments should contain:

Access of J. Seidl to computing and storage facilities owned by parties and projects contributing to the National Grid Infrastructure MetaCentrum, provided under the programme ”Projects of Large Infrastructure for Research, Development, and Innovations” (LM2010005), is appreciated.

## Further corrections:

- In the chapter 2.2: Instead of the reference to the equation (2.5), it should be the reference to the equation (2.4).
- In the chapter 5.2: Below the figures 5.10 and 5.11 the sentence ” relative density and plasma potential fluctuations” was by mistake copied from the previous text and placed there randomly. It should not be placed there.
- In the chapters 4.3.1, 4.3.2 and 5.2: Instead of the figures 4.6 (left), 4.7 (left), 4.8 (left), 4.14, 4.22, 4.23, 4.30, 4.31, 4.32, 5.9, 5.10 and 5.11, there should be rather the following figures with closer compared positions for the experiment and model :

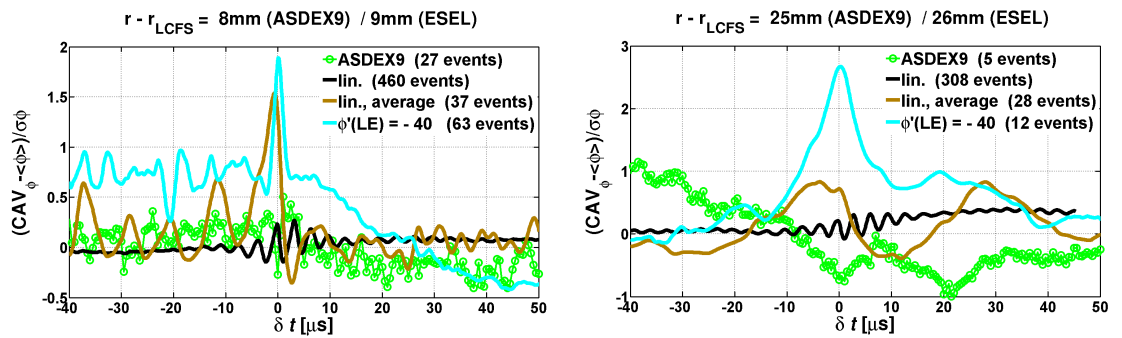


Figure 4.6: Conditional average (CAV) of the plasma potential  $\phi$  computed near the LCFS (left) and far from the LCFS (right). The experimental CAVs have one negative and one positive peak, but model CAVs have only one positive peak.

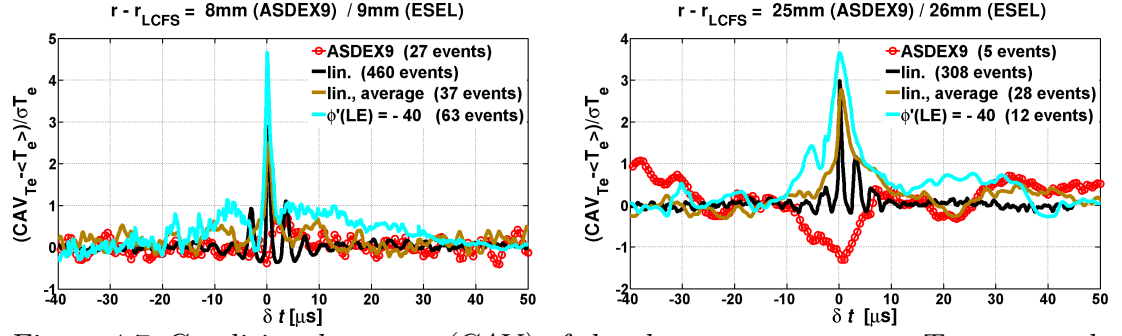


Figure 4.7: Conditional average (CAV) of the electron temperature  $T_e$  computed near the LCFS (left) and far from the LCFS (right). Far from the LCFS the experimental CAV has one negative peak, but model CAV has one positive peak.

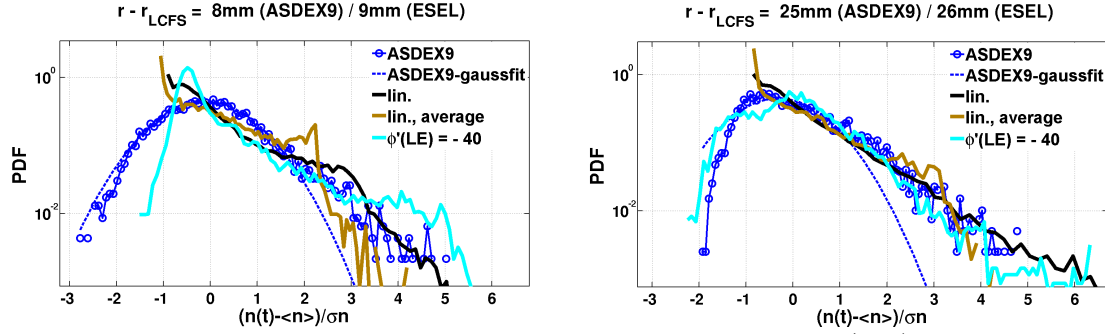


Figure 4.8: PDF of the density  $n$  calculated near the LCFS (left) and far from the LCFS (right). The exponential form of the sheath dissipation term results in good agreement with experiment in the location far from the LCFS.

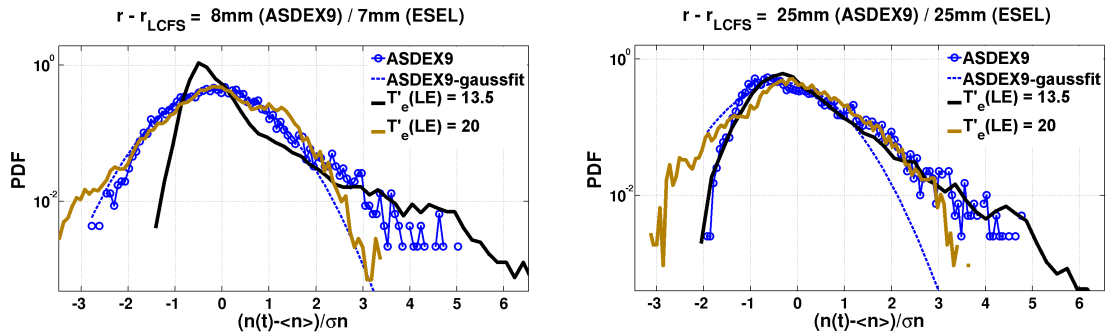


Figure 4.14: PDF of the density  $n$  calculated near the LCFS (left) and far from the LCFS (right). Increase in  $T_e'(LE)$  at  $E_r'(LE) = 1.25$  results in worse agreement with experiment.

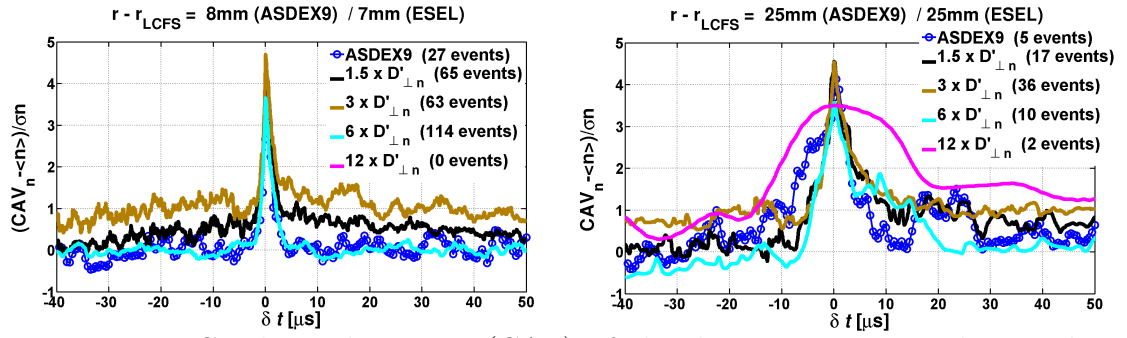


Figure 4.22: Conditional average (CAV) of the density  $n$  computed near the LCFS (left) and far from the LCFS (right). Excessive increase in  $D'_{\perp n}$  results in SOL plasma almost without blobs.

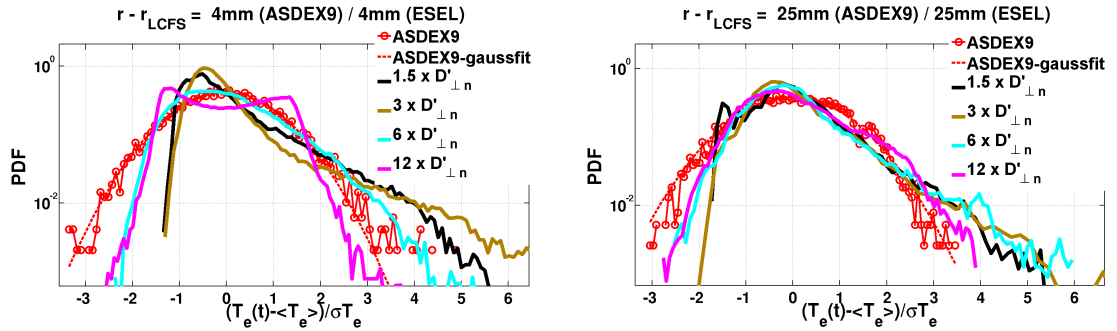


Figure 4.23: PDF of the density  $n$  calculated near the LCFS (left) and far from the LCFS (right). Excessive increase in  $D'_{\perp n}$  results in almost Gaussian PDF.

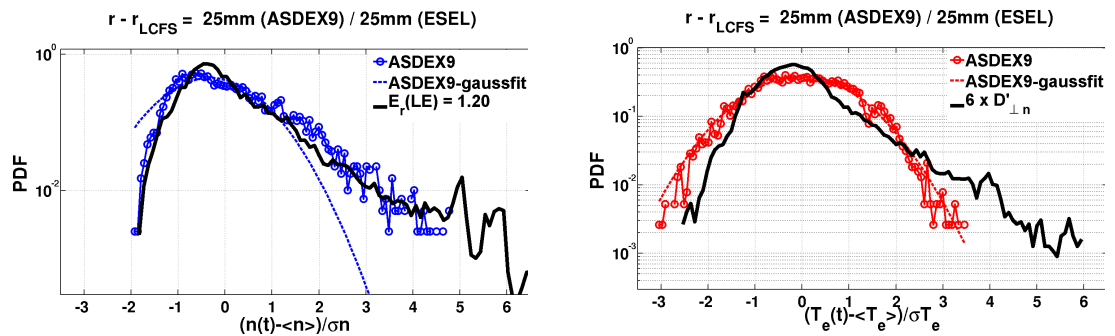


Figure 4.30: PDF of the density  $n$  (left) and electron temperature  $T_e$  (right) calculated far from the LCFS. For the density there is a good agreement with experiment.

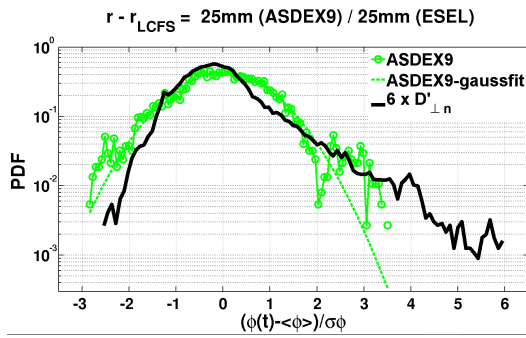


Figure 4.31: PDF of the plasma potential  $\phi$  calculated far from the LCFS . Relatively good agreement with experiment.

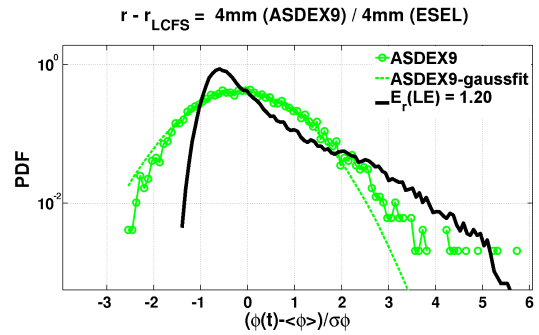
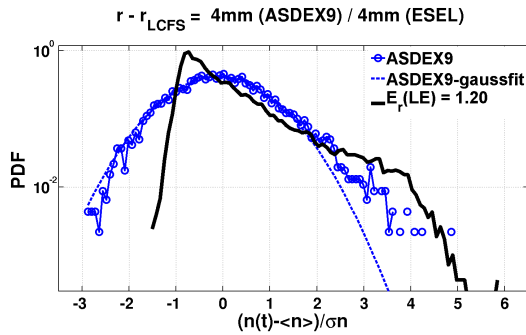


Figure 4.32: PDF of the density  $n$  (left) and the plasma potential  $\phi$  (right) calculated near the LCFS . Greater skewness in the ESEL PDFs than in the experimental PDFs.

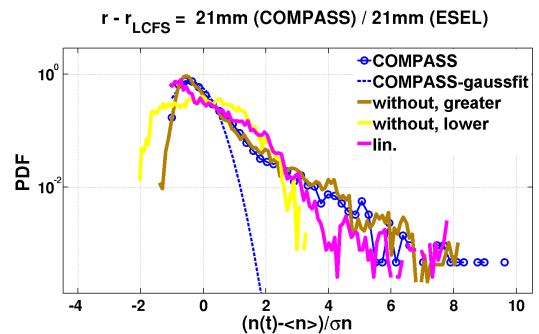
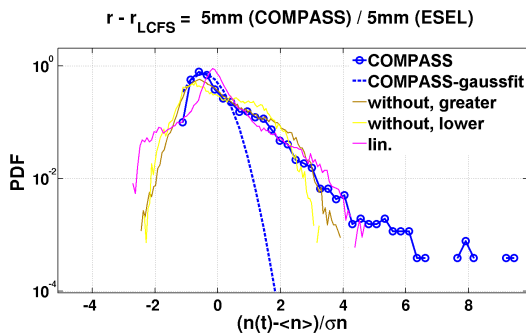


Figure 5.9: PDFs of the density  $n$  calculated near (left) and far (right) from the LCFS. Good agreement with experiment.

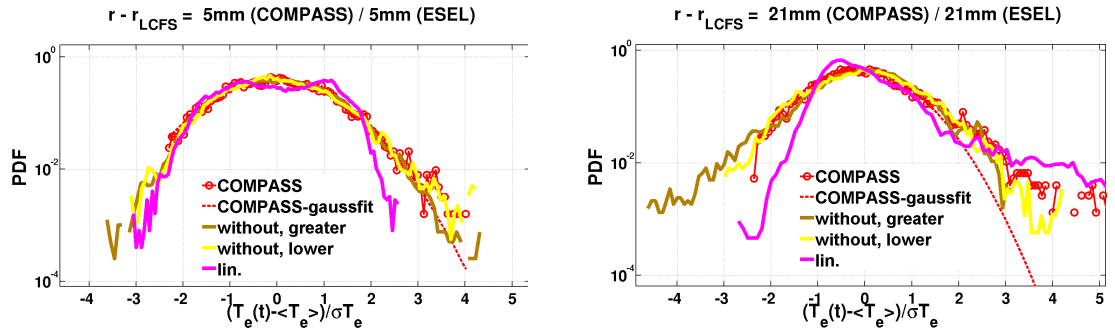


Figure 5.10: PDFs of the electron temperature  $T_e$  calculated near (left) and far (right) from the LCFS. Good agreement with experiment for two simulations without the sheath dissipation term.

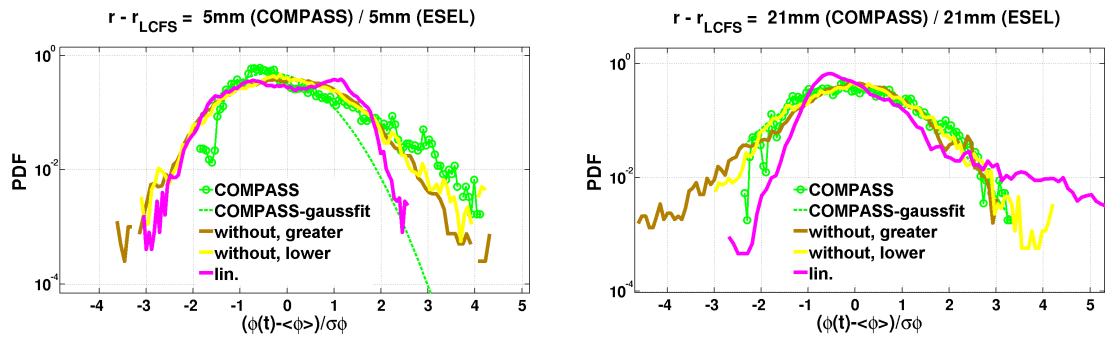


Figure 5.11: PDFs of the plasma potential  $\phi$  calculated near (left) and far (right) from the LCFS. Good agreement with experiment for two simulations without the sheath dissipation term.