

## List of minor corrections and typos for C. Wret's thesis, 13/07/2018

- p.1, line 7, ...dominated modes...;
- p.6, line 5, ...at L/E...;
- p. 7, line 21, ...interaction boosted into its rest-frame.;
- p8. Line 1, ...diagrams for the definition of...;
- p. 15, meaning of Fig. 2.10 (??);
- p. 17, meaning of IBD acronym;
- p. 25, make fig. 3.6 larger;
- p. 29 TOF for positive/negative forward/backward, explain how;
- p. 30, line 18, ...and from pions...;
- p. 31, fig. 3.13b, legend, MC positrons;
- p. 41-42, fig. 4.4 and its discussion, it would be nice to explain a bit more why it is believed the chain converged after 30k steps and what value of minimum it obtains compared to BANFF framework. Why the min value at 800 steps is not better?;
- p. 46, I feel a better (more clear) explanation of the procedure to construct p-value (bullet points) would be needed;
- p. 48, Table 5.1, I cannot find explanation for 1Re1de;
- p. 52, eq. 5.2, ADC meaning;
- p. 52, line 12, ...cut, which contributes to the likelihood...;
- p. 53, fig. 5.1b, legend, MC positrons;
- p. 54, line 2, explain more about neutral pions reconstruction issue;
- p. 56, define CC1Track and CCNTrack;
- p. 58, fig. 5.10, use  $\delta$  instead of pull like before;
- p. 58, line 1, ...which can capture...;
- p. 64, bullets, add units;
- p. 65, explain better fig. 5.15, perhaps a better caption (more elaborated) would be needed;
- p. 67, equation in the text after eq. 5.12, space missing;
- p. 67, eq. 5.14, C in the main part?;
- p. 73, Write clear explanation for Fig. 5.16!;
- p. 78, provide better explanation of eq. 5.23 and 5.24, and Fig. 5.21 on p.79. Again it seems strange that A, B, C and D have  $Q^2$  dependence. Please provide reference to the theoretical prediction in this figure (caption).;
- p. 81, line 24, rephrase the sentence about the extreme variation in absorption;
- p. 115, line 11, This may indicate...;
- p. 118, fig. 5.51, Explain the meaning of Pre-fit and Post-fit;
- p. 124, fig. 5.58, Toys - explain/use other term, explain the meaning of the vertical line. Perhaps just improve the caption.
- p. 132, line 11, ...and passed validation...;
- p. 143-144, fig. 6.3 and 6.4, PLEASE make them looking better;
- p. 164, line 12, Explain/rephrase the meaning of delta functions for systematics;
- p. 174, Table, 6.12, FGD1 Anti  $\nu_\mu$  Other: check the entry in the last two columns-87 (the same?);
- p. 209, line 18, dot missing.
- p.209-10, Discuss in the conclusions a comparison with BANFF framework (advantages, disadvantages, etc.)
- p. 246, Meaning of fig. E2 and E3, seem empty;