

1 We sincerely thank the four reviewers for their valuable feedback. We address a common concern from R5 and R6:

2 **Boundedness of the iterates:**

3 **R1:** We thank the reviewer for valuable comments. Our point-to-point response is as follows:

4 **Comparison with OPT-FTRL:**

5 **R2:** We thank the reviewer for valuable comments. A proofreading is being done we clarify that:

6 **Novelty of the contribution:** A

7 **R3:** We thank the reviewer for the thorough analysis. Our remarks are listed below:

8 **Gradient prediction algorithm:** We will

9 **Numerical Experiments:** The learning rates have been tuned over a grid search for all methods and the best performances over 5 repetitions have been reported.

11 **R5:** We thank the reviewer for valuable comments and typos. Our response is as follows:

12 **Discussion on the bounds:**

13 **R6:** We thank the reviewer for valuable comments. We clarify the following point on OPT-ADAM:

14 **OPT-ADAM:**