

1 We sincerely thank the four reviewers for their valuable feedback.

2 **Reviewer 1:** We thank the reviewer for valuable comments. Our point-to-point response is as follows:

3 **Comparison with OPT-FTRL:**

4 **Reviewer 2:** We thank the reviewer for valuable comments. A proofreading is being done we clarify that:

5 **Novelty of the contribution:**

6 **Reviewer 3:** We thank the reviewer for the thorough analysis. Our remarks are listed below:

7 **Gradient prediction algorithm:**

8 **Numerical Experiments:**

9 **Reviewer 5:** We thank the reviewer for valuable comments and typos. Our response is as follows:

10 **Theoretical results:**

11 **Numerical experiments:**

12 **Reviewer 6:** We thank the reviewer for valuable comments and typos. Our response is as follows:

13 **OPT-ADAM:**

14 **Boundedness of the iterates:**