

## REVIEW

Title: Vibration error compensation algorithm in the development of the laser interference absolute gravimeter

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### 1. Remark:

The modifications done by the authors are easing the reading and improving the quality of the article.

The figures are also clearer.

### 2. Specific questions:

(1). Thank you for this reminder. Maybe it can be recalled at the end of section 2.3 to ease the transition between the two techniques.

(2) Indeed, the authors clarified the genetic algorithm employed for solving the VECA. This is appreciable.

(3) The fact that vibration interference from eq (3.2) and (3.3) are referencing the actual signal measured using an actual PVIS system, can be added to the manuscript for clarity.

(4-5) It seems clearer, with this revised manuscript.

Despite, all the good improvements of the authors, I think that the quality of the manuscript would be really increase by answering the 2 following questions.

(a) Can the PVIS prior (vibration information) be included in the LSS for comparison ?

(b) Can you try to solve the VECA with other techniques ? If yes, make a comparison, if no, you should explain why in the manuscript ?

### 3. Typing errors:

l. 166 There is still a little inconsistency in the mathematical symbols: \* should be replaced by \times, or better 1\* can be removed.