



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Physical Review & Research International
Manuscript Number:	2013_PRR1_6986
Title of the Manuscript:	Measurements of absolute atomic oxygen density by two-photon absorption laser-induced fluorescence spectroscopy in hot air plasma generated by microwave resonant cavity

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>The authors were very pro-active in implementing all of the requested revisions. The only suggestion would be to include the collisional deactivation discussion in the paper. The discussion, as provided to the reviewer is:</p> <p>The quenching of excited O atoms by ground state O atoms is neglected if the atomic oxygen is supposed to be a minority species. Anyway, the upper limit of value of the quenching rate constant was estimated to be 0.82.10-11 cm3s-1 in an oxygen plasma jet having a sufficiently high and controllable degree of dissociation (G Dilecce, M Vigliotti1 and S De BenedictisJ. Phys. D: Appl. Phys. 33 No 6 (21 March 2000) L53-L56 "A TALIF calibration method for quantitative oxygen atom density measurement in plasma jets").</p> <p>Thus, in our case, the radiative time decay of reaction remains shorter than the collisional time decay reaction.</p> <p>The authors may want to include this in the paper to further bolster their claim that collisional deactivation is not that important.</p>	

Note: Anonymous Reviewer