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## ***Interactive comment on “Responses of soil respiration to elevated carbon dioxide and nitrogen addition in subtropical forest ecosystems in China” by Q. Deng et al.***

### **Anonymous Referee #2**

Received and published: 4 November 2009

This study provides very important information of soil respiration in tropical region in China with an OTC experiment. Most data are very interesting and seems to be essential for predicting future soil respiration. In Fig3, it is wonderful data of respiration and soil moisture condition. It is very nice. However, the Introduction is irrelevant in the arrangement of each paragraph. Also there are some mistakes in text. Please consider them.

This study focused on soil respiration so that you should start the description of soil respiration.

In 8361, Introduction: Please start the second paragraph (from line 18-26), and insert

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line 7-17 to the end of line 15 in 8362 with some of your modification.

In 8363, line 13: there is no hypothesis of this study. You should state it.

In details:

In 8365, line 16. Unfortunately, number of chambers was not enough, so that you should explain how to “overcome statistical difficulties “with limited number of chamber.

Line 23, why did you use  $\text{NH}_4\text{NO}_3$  as a nitrogen source.

In 8370, related to Fig. 2, Please explain or give plausible understanding of the big variation around high soil temperature.

In 8373, line 2, sol should be soil?!

In 8374: Is there any relationship between symbiotic micro-organisms in rhizosphere and respiration with high nitrogen loading. Activity of ectomycorrhiza is usually suppressed at high N. Do you have any data related to this point?

In 8375, Do you have any discussion related to planted seedlings and soil respiration?

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Interactive comment on Biogeosciences Discuss., 6, 8359, 2009.

**BGD**

6, C2846–C2847, 2009

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