**Editor’s Comment:**

Factually, the paper renders an important insight of the behaviour of some materials under

extreme conditions. The manuscript underwent thorough and critical peer reviews,

particularly by two referees, which is admirable. The paper is highly recommended for

publication. However, the researchers are advised to note the following issues for

betterment.

I think much better alternative to the title was suggested by the first referee: ‘Solidification

Kinetics and Morphological Transitions in Zr-Cu-Ni Alloys: Ground and Microgravity

Experiments’. Further, the same referee also suggested much compact but comprehensive

abstract. The abstract is too long on the contrary. Particularly, the sentence: ‘In the evolution

analyses of the recalescence fronts, it is found that the square shape of the recalescence front

changes from a square shape to a hexagonal shape as the undercooling increases from low

to intermediate values’ is very poor.

Below fig 1: ‘will be controlled’ should be ‘is controlled’.

Below fig 5: ‘Very remarkable that’ should be ‘Remarkably’. What is ‘remind structures’?

Figure 5(b) and (c) again Fig. 3 and see Figs. 3 and 4, appearing in discussion better should

be placed within parenthesis. ‘exhibit’ should be ‘exhibits’. Remove comma between ‘and,

finally’ and also ‘and, therefore’. ‘Very probably that’ should be ‘Probably’. ‘Rather

remarkably that this transition was called by the authors of works’ should be rephrased, may

be as ‘authors dubbed this as kinetic transition… [10,11,12] ’. ‘one can suppose that’ should

better be ‘supposedly’.

Some irrelevant articles should be removed, e.g., ‘the’ from ‘the different preferable’, ‘The

presently’ etc. A comma should appear after e.g.,.

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