

# 博士学位論文 審査結果の要旨

芝浦工業大学大学院 理工学研究科 博士（後期）課程  
博士学位論文審査委員会

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氏 名	Arvapalli Sai Srikanth
論文題目	Innovative Techniques for Enhancement of Superconducting Characteristics of Bulk MgB <sub>2</sub>
〔論文審査の要旨〕	
<p>On July 30, 2020, the final PhD defense was successfully conducted by zoom for the candidate Mr. Sai Srikanth Arvapalli. The final defense examination was held for 1 hour, ppt presentation, followed by Q&amp;A section and finally evaluation for examination results. The Q&amp;A section passed very well and all committee members were satisfied since as for their suggestions and advice were rose in the first defense has been incorporated in final thesis. Further, several questions came by audience specially questions related to processing and importance of the Ultrasonication Technique. Further, they reside if it is possible to completely avoid MgO formations during synthesis of bulk MgB<sub>2</sub>, the Ultrasonication Technique is interesting, and can also be applied in other superconducting material production and its benefits, how other parameters in the Ultrasonication techniques can be manipulated, importance of the cheap processing and its use in real applications, nano-meter size boron particle production by the Ultrasonication and influence on high viscosity dispersants etc.,</p> <p>The audience as well as committee members were satisfied by student's response. Eventually, all PhD committee members were satisfied. As a result, everyone had accepted to <i>pass</i> the final PhD defense.</p>	