

BENEMÉRITA UNIVERSIDAD AUTÓNOMA DE PUEBLA



**INSTITUTO DE FÍSICA
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**“SPECIFIC HEAT STUDIES OF PURE Nb₃Sn SINGLE
CRYSTALS AT LOW TEMPERATURE”**

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Specific heat measurements performed on high purity vapor-grown Nb₃ Sn crystals show clear features related to both the martensitic and superconducting transitions. Our measurements indicate that the martensitic anomaly does not display hysteresis, meaning that the martensitic transition could be a weak first-order or a second-order thermodynamic transition. Careful measurements of the two transition temperatures display an inverse correlation between them. At low temperature, specific heat measurements show the existence of a single superconducting energy gap feature.

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