

Nb₃Sn Vapor Diffusion Growth: How does the Nb Substrate Impact Growth

- There is a significant drive to identify Nb₃Sn growth procedures resulting in high performing Nb₃Sn SRF cavities
- What are the **biggest hurdles** in developing an optimal Nb₃Sn growth procedure?
- Strategies for:
 1. **Scaling up** current Nb₃Sn growth procedures?
 2. Adjusting Nb₃Sn growth procedures to **accommodate complex cavity geometry**?
- How can **Sn nucleation** be tuned to support the formation of optimal Nb₃Sn films?
- In what way does the native **Nb₂O₅** influence Sn nucleation, diffusion, and Nb₃Sn growth? Is this controllable?
- What information would best serve the development of **effective Nb₃Sn growth procedures**?