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New Nb material for cost saving

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It has been a fundamental requirement to realize high-performance superconducting RF cavities with highly cost-effective production. New, medium grain (MG) niobium (Nb) material and clean disc production has been realized with a cost-effective production process with (i) forging pure Nb ingot, (ii) annealing, and (iii) direct slicing. It has provided very clean surface, without rolling process causing contamination, and optimized grain-size condition for stable and reliable cavity forming process. The successful development of the MG Nb material for cost saving will be presented.

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