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Thu-Mo-Po.06-06: Tensile and compressive fracture behavior of BSCCO filaments

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Reinforced BSCCO wire has been considered to have a small margin of strength on the compression side because the filaments has been introduced to compressive strain. However, due to the presence of a sheath and the difficulty of observation, there were no examples of actual fracture behavior in compression. In this paper, we report on in situ microscopic observations of BSCCO filaments exposed at room temperature under tensile and compressive strains.

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