

## **Mechanical characterisation of braided carbon nanotubes for wire scanners**

*Wednesday 21 June 2023 10:00 (20 minutes)*

The increased luminosity of future particle accelerators will require improvements to beam instrumentation techniques and materials. A promising route for future wire scanners is the use of braided carbon nanotubes which have an exceptional combination of mechanical and thermal characteristics. This study outlines initial investigations into the effects of braiding on mechanical performance and routes to reliably model these systems.

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**Session Classification:** Characterization