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## First results of AUP Nb3Sn quadrupole horizontal tests

*Thursday, 23 May 2024 11:00 (30 minutes)*

The Large Hadron Collider will soon undergo an upgrade to increase its luminosity by a factor of  $\sim 10$ . A crucial part of this upgrade will be replacement of the NbTi final focus magnets with Nb3Sn magnets that achieve a  $\sim 50\%$  increase in the field strength. This will be the first ever large scale implementation of Nb3Sn magnets in a particle accelerator. This talk will present the program to fabricate these components and first results from horizontal tests of fully assembled cryoassemblies.

### Footnotes

### Funding Agency

### Paper preparation format

### Region represented

North America

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