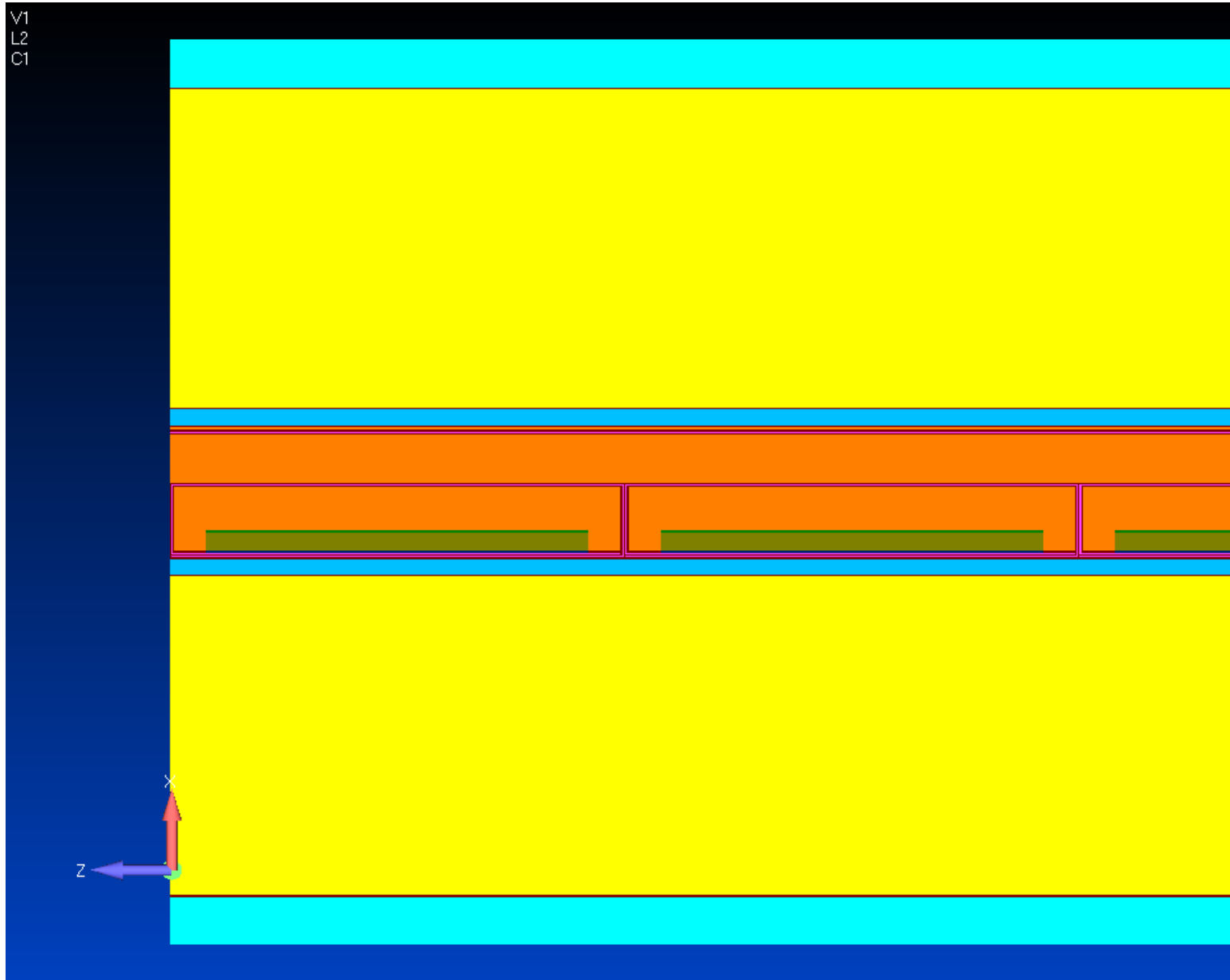


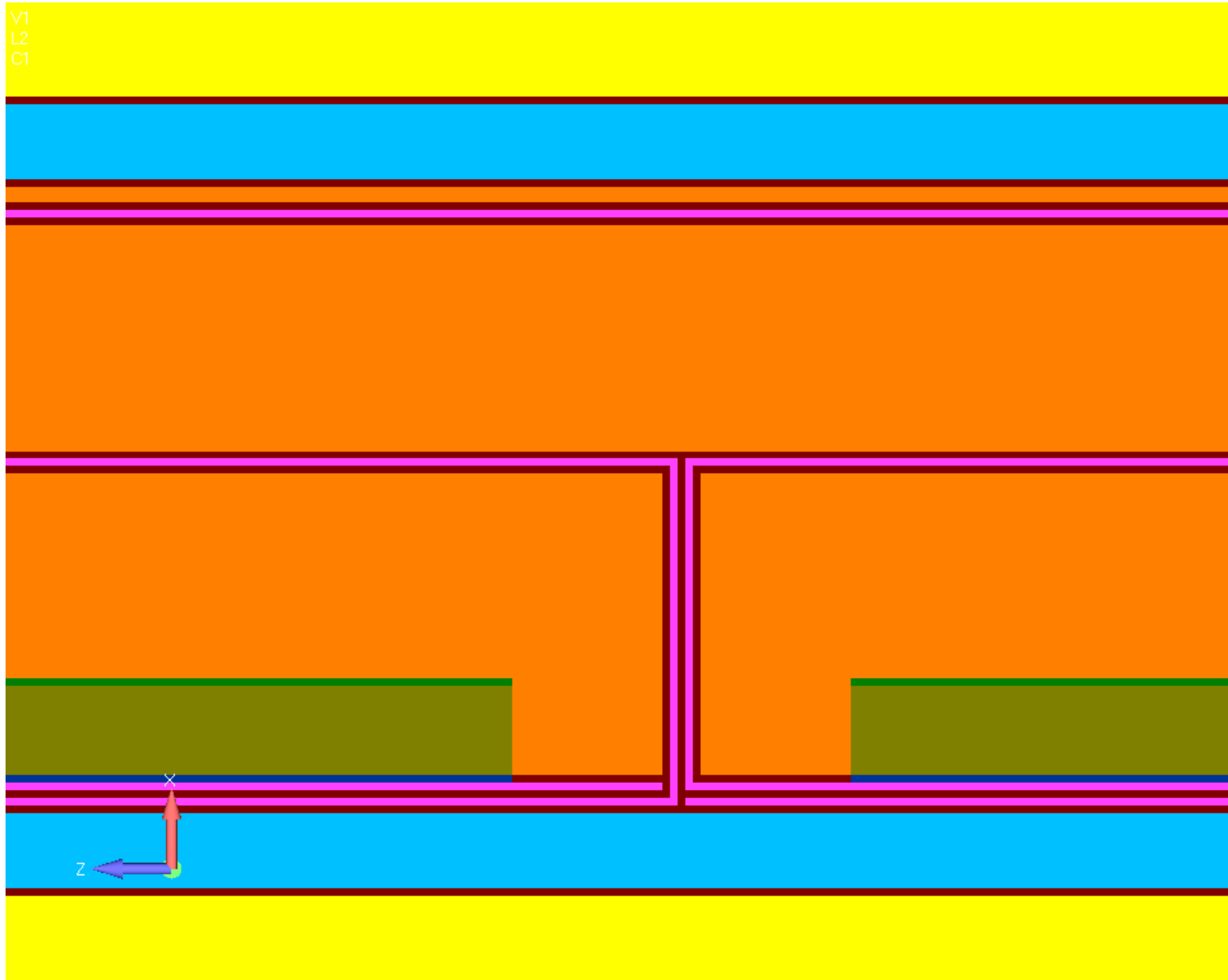
AMS100 Magnet Version 2.4

Preliminary Results

08/19/2020 A. Schultz v. Dratzig

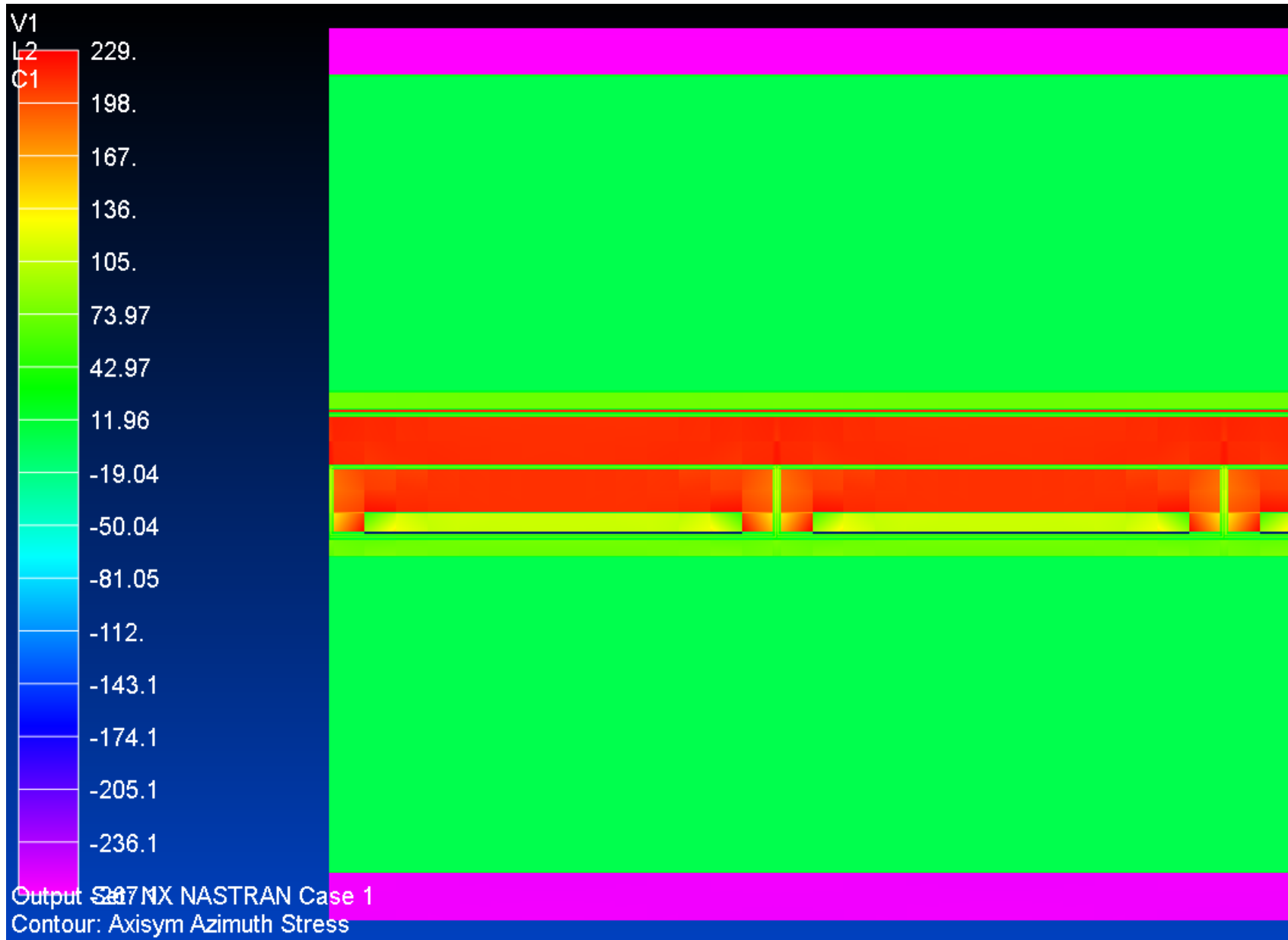


Modell

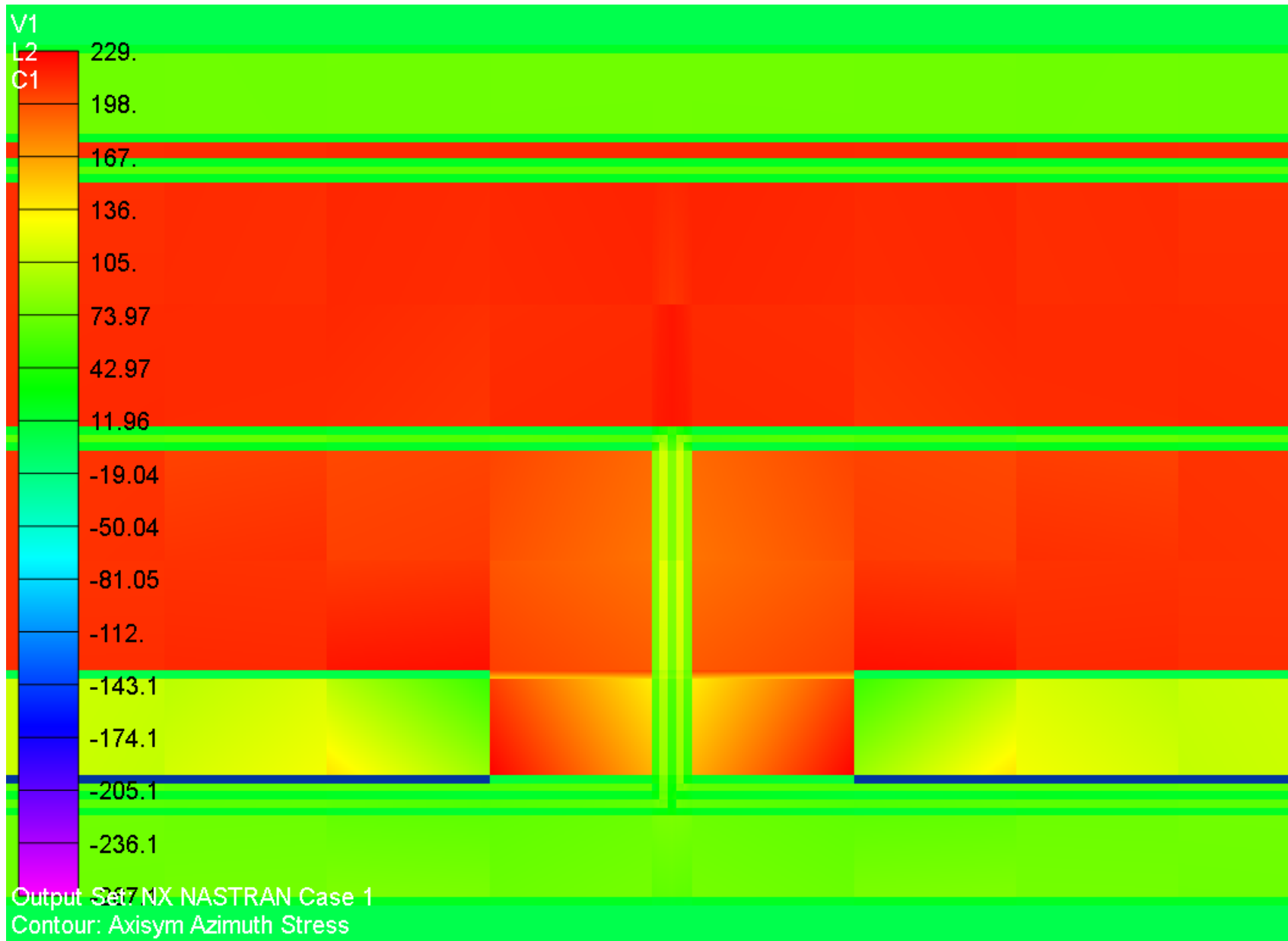


V1
L2
C1

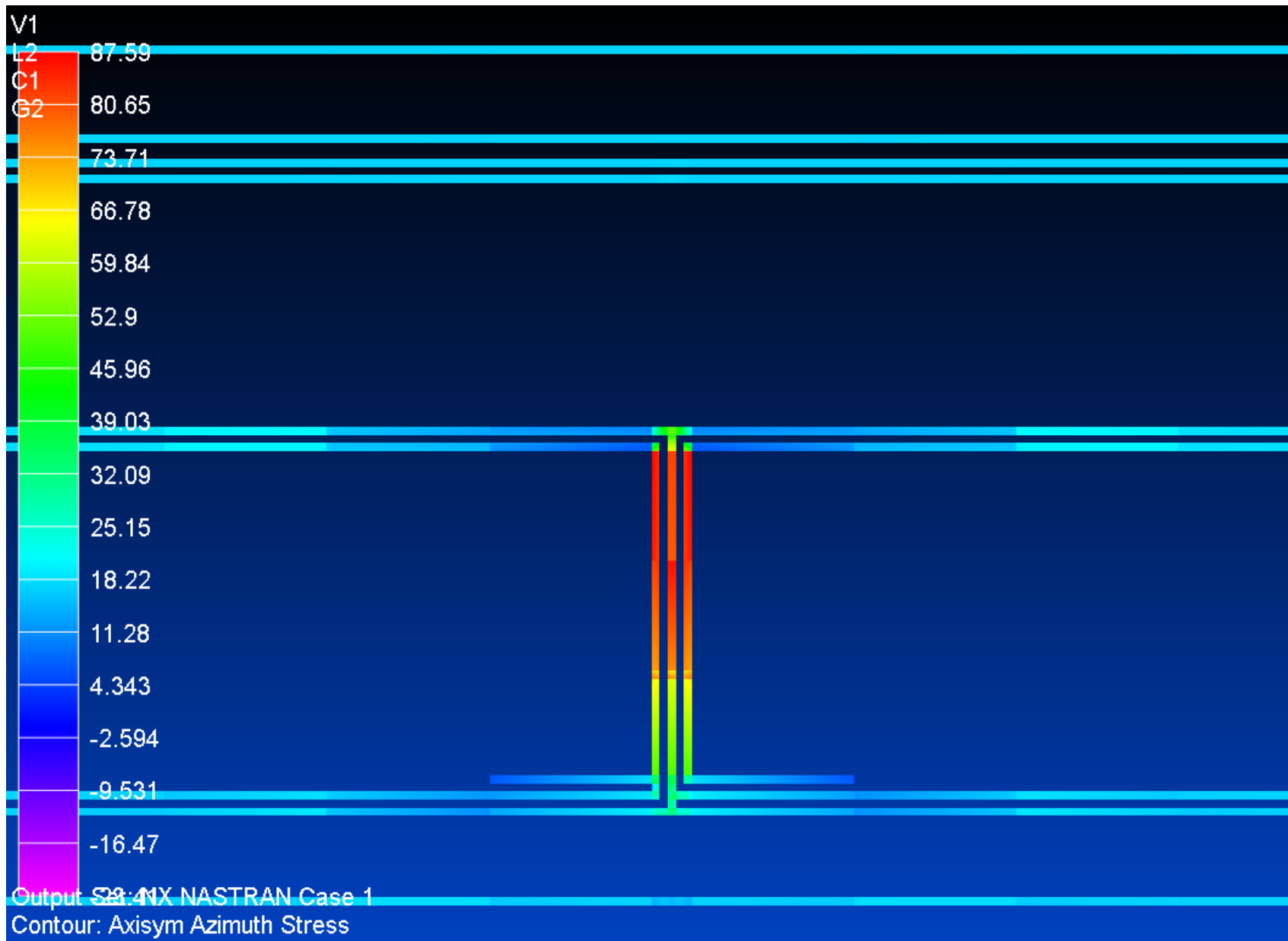
Modell Detail



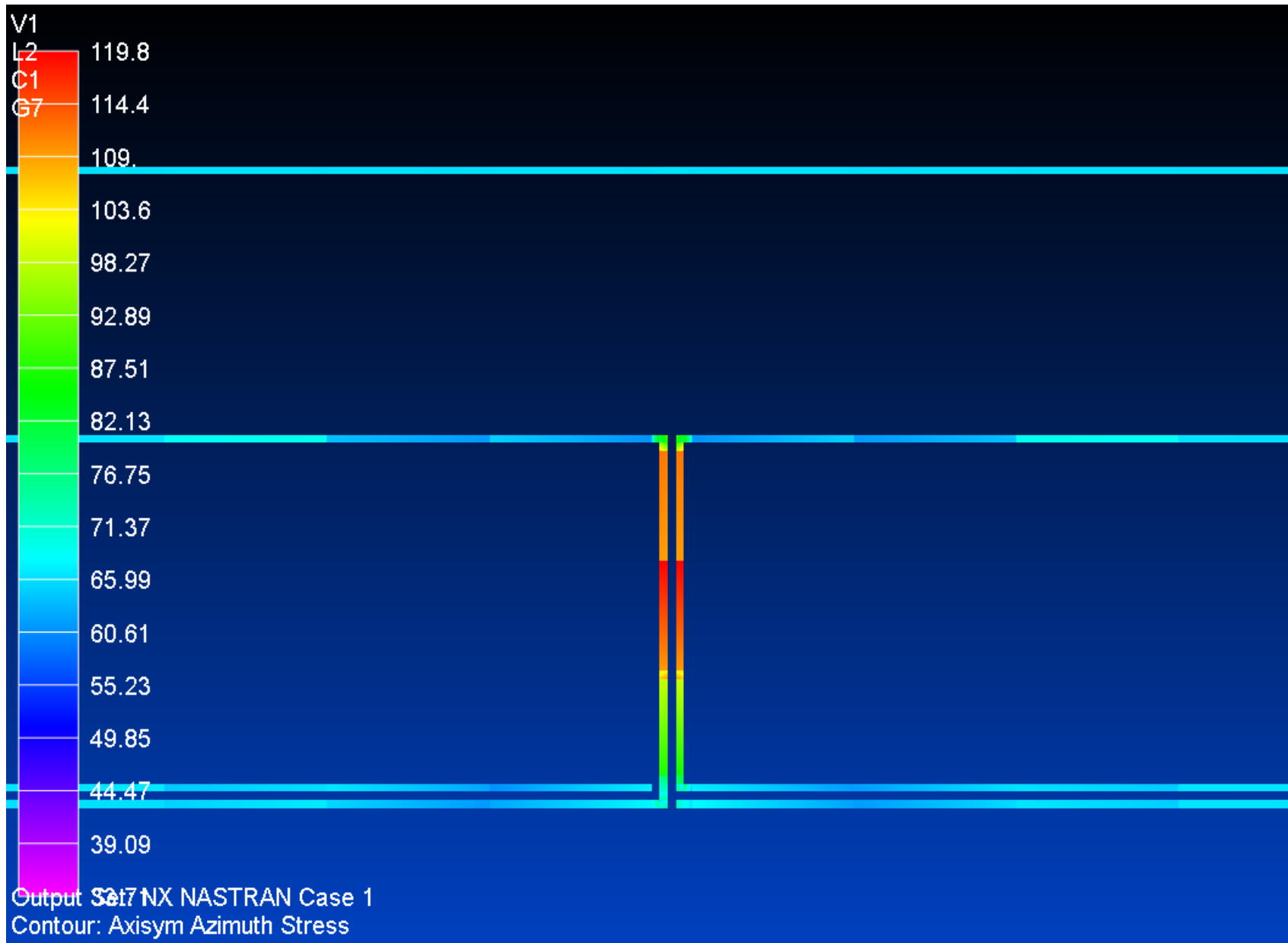
Cooldown to 4 K



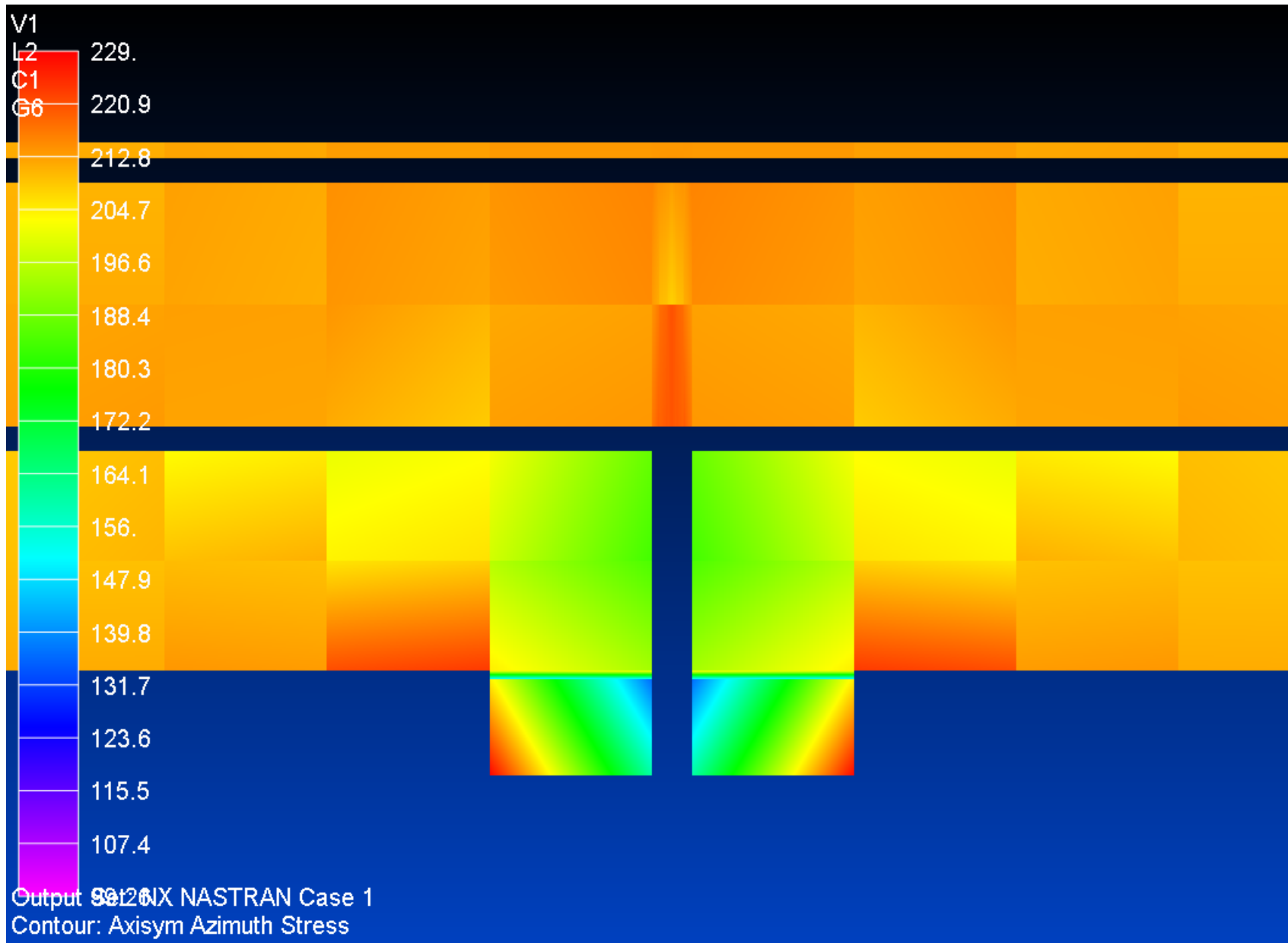
Cooldown to 4 K Detail



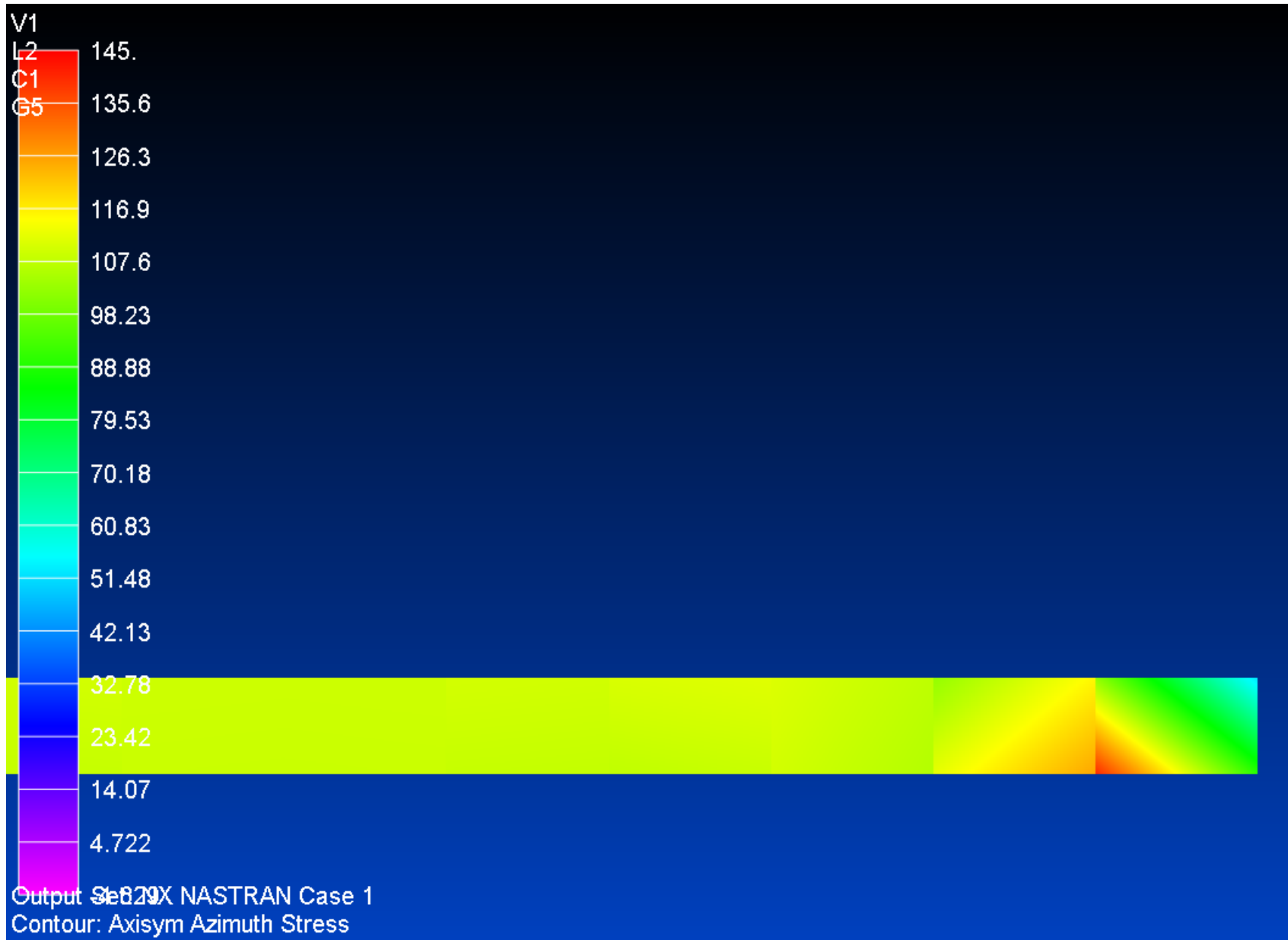
Cooldown to 4 K Epoxy



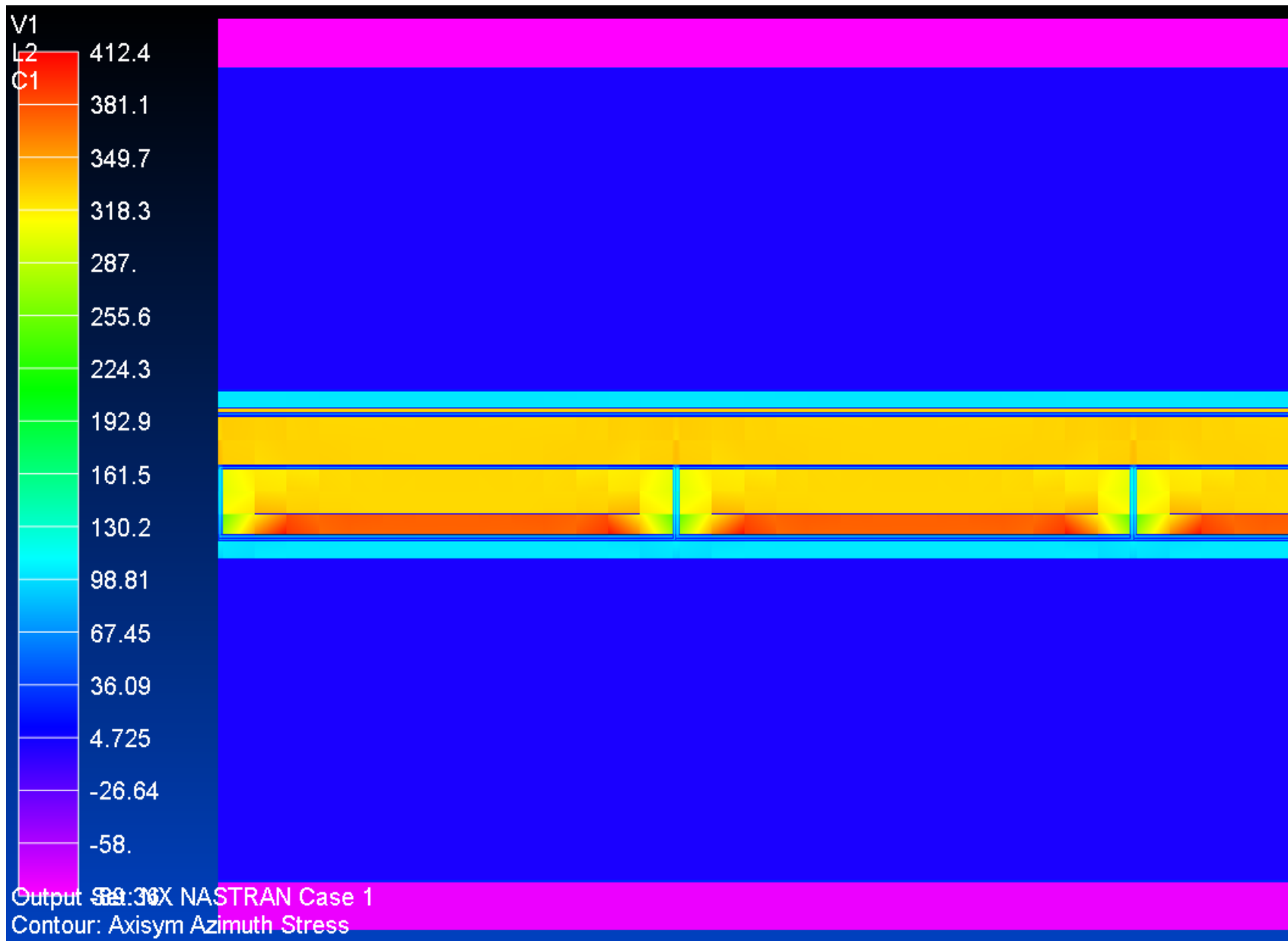
Cooldown to 4 K Kapton



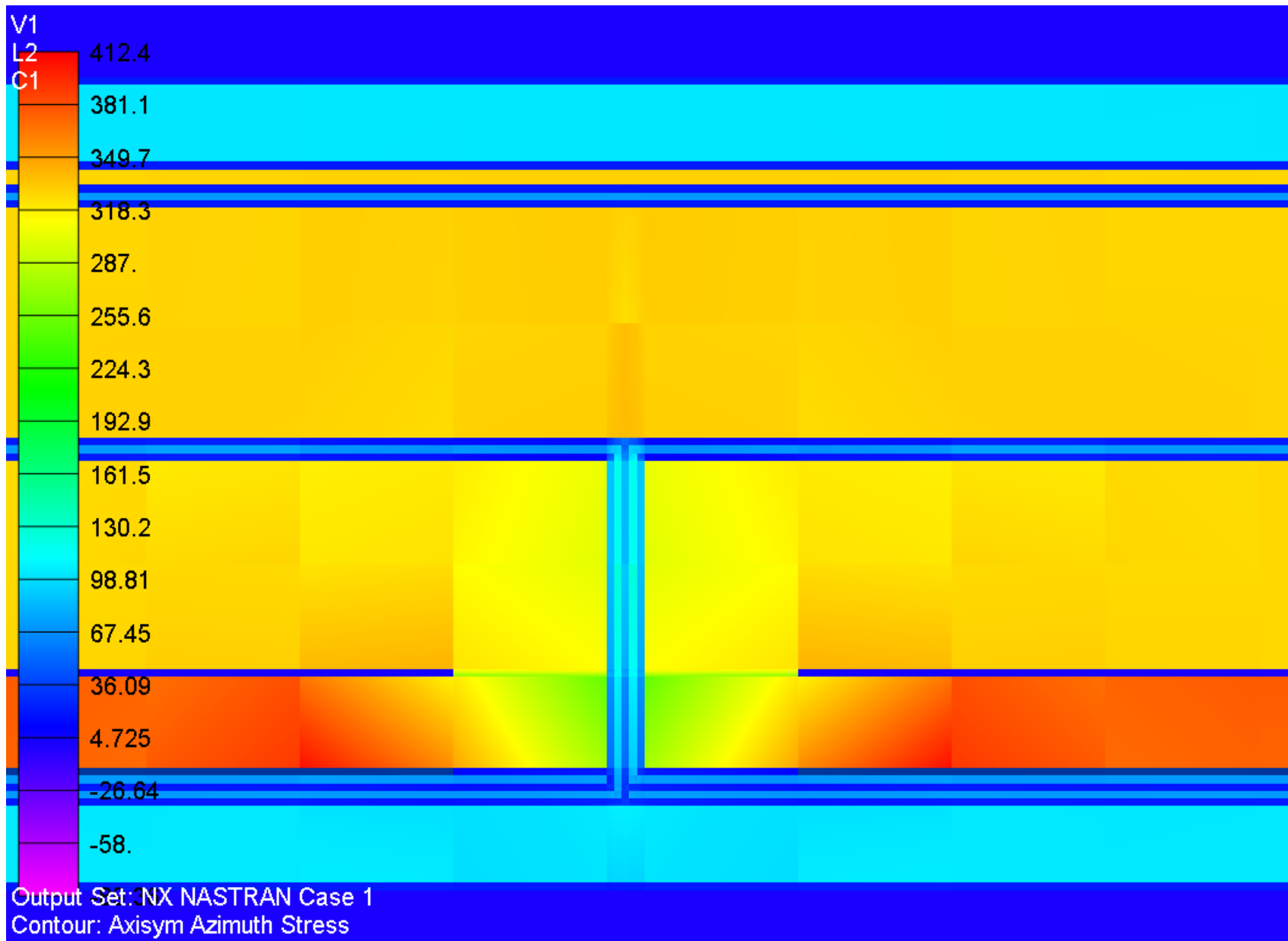
Cooldown to 4 K Aluminum Parts



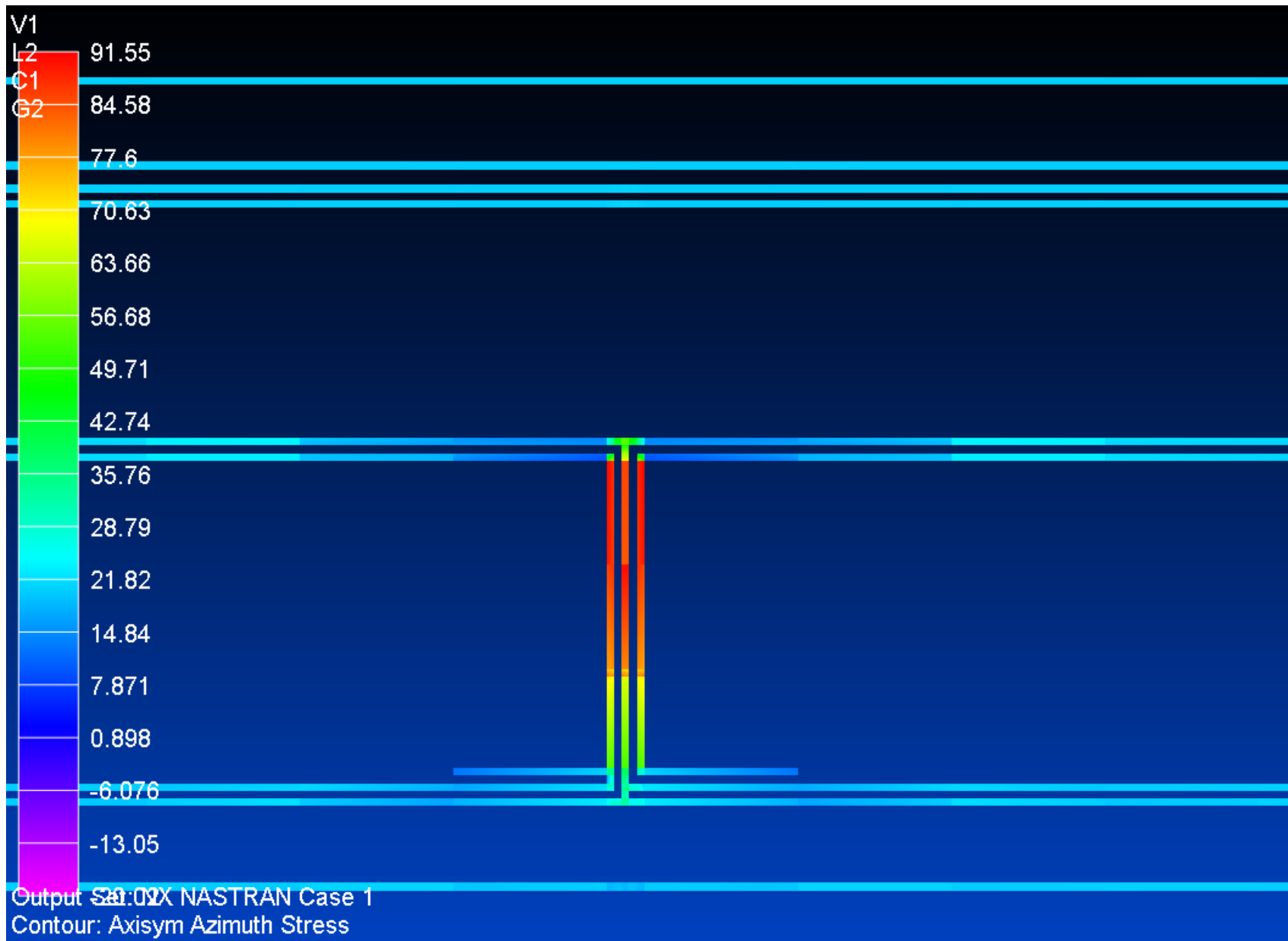
Cooldown to 4 K HTS



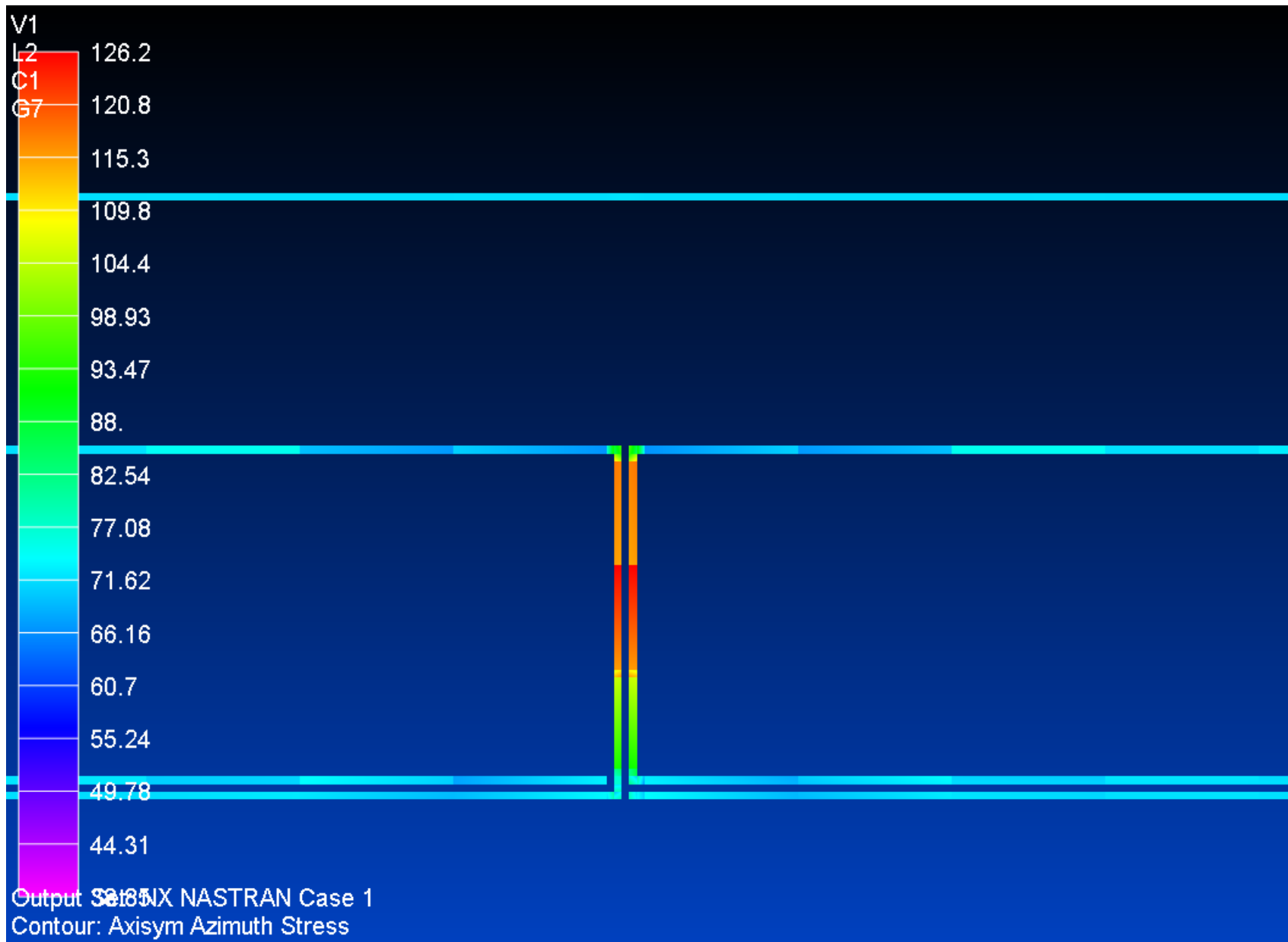
Cooldown to 4 K & Magnet 7 bar



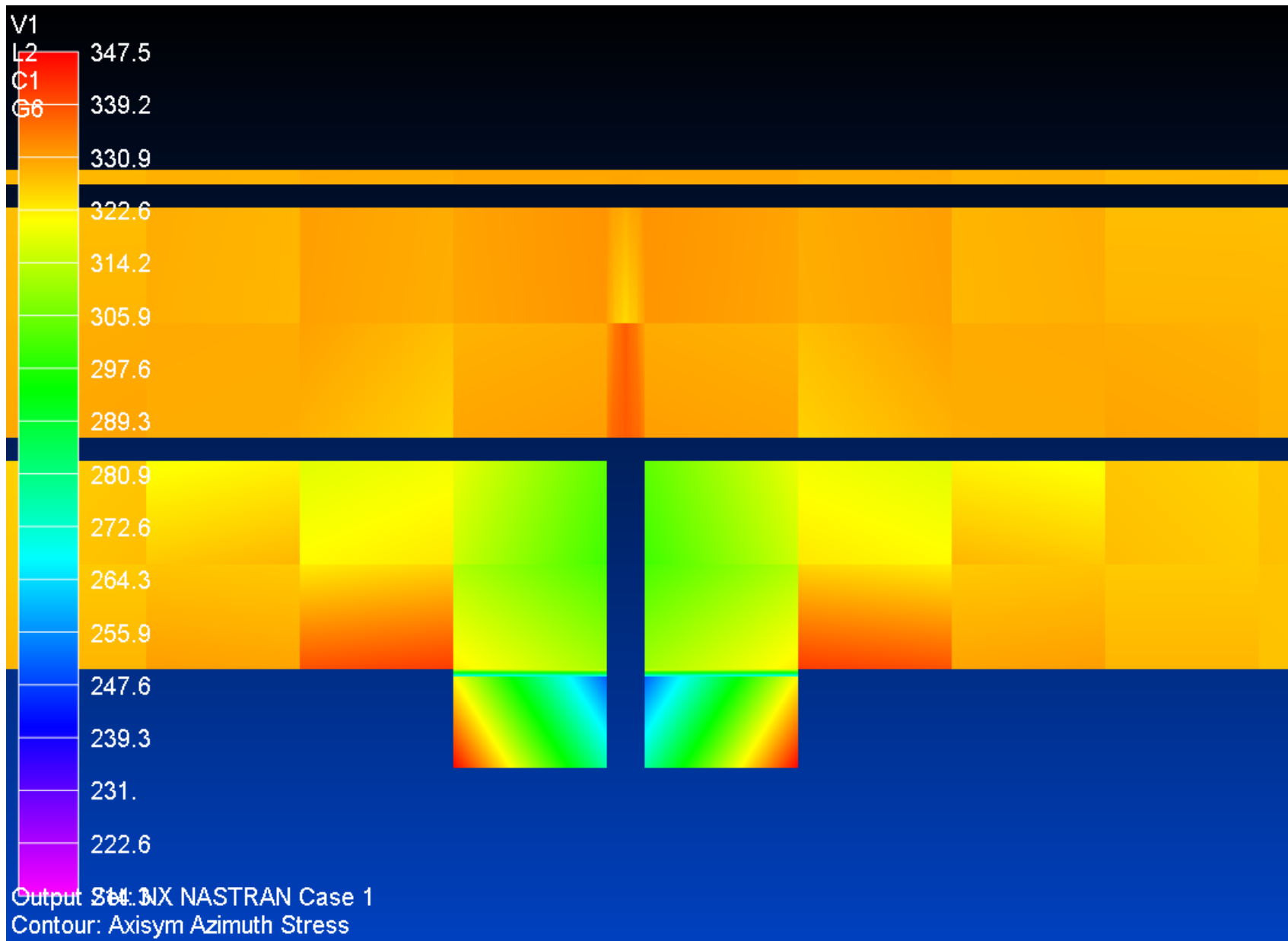
Cooldown to 4 K & Magnet 7 bar Detail



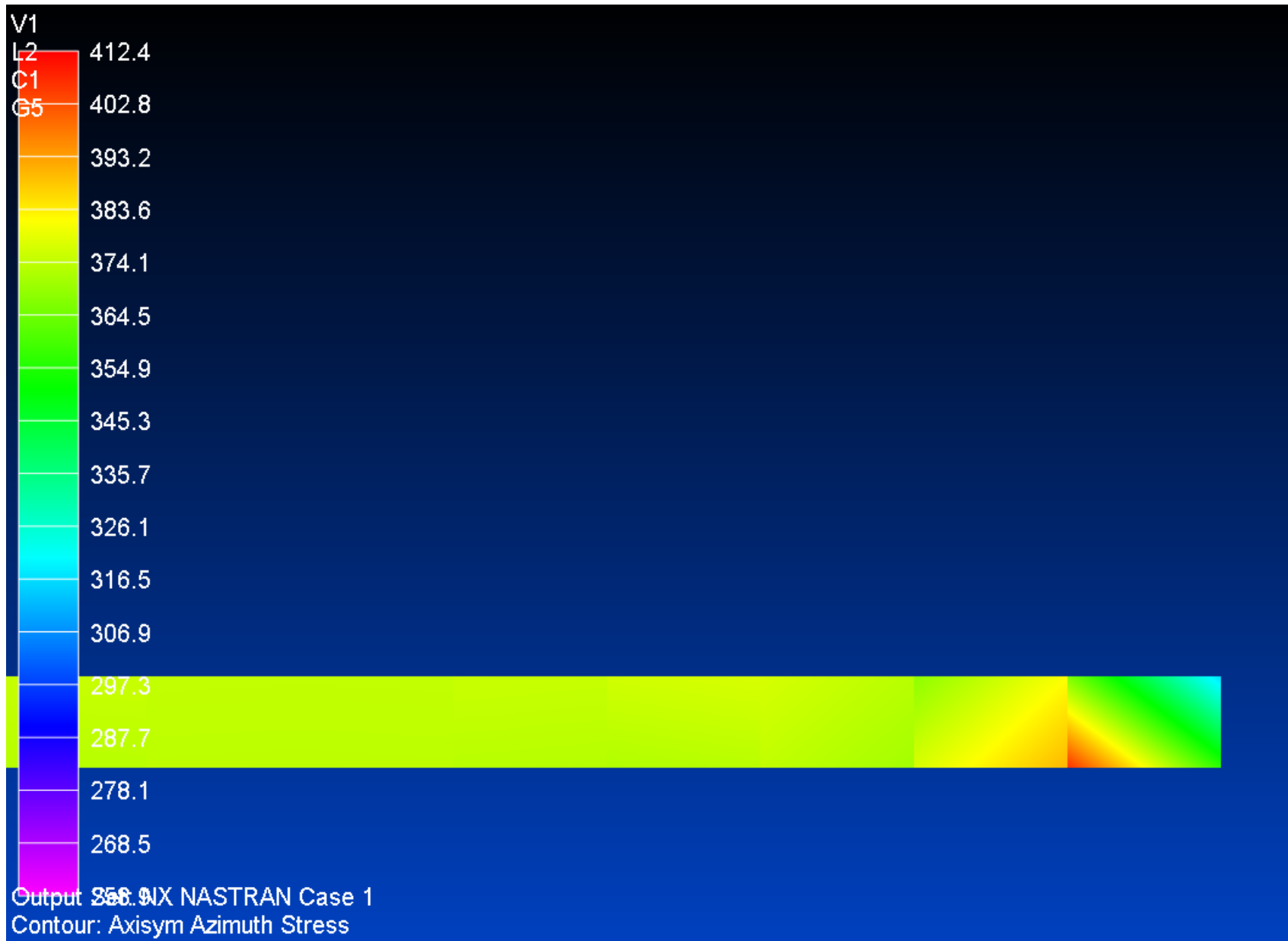
Cooldown to 4 K & Magnet 7 bar Epoxy



Cooldown to 4 K & Magnet 7 bar Kapton



Cooldown to 4 K & Magnet 7 bar Aluminum Parts



Cooldown to 4 K & Magnet 7 bar HTS

The parts that are not shown explicitly are safe!

Epoxy & Kapton are overloaded but are not critical.

Aluminum might be ok depending on the alloy.

HTS is ok.

HTS is in tension and not fixed on the lower side. Since the HTS is soldered to the Aluminum part at the upper and side surfaces there is danger that the superconductor is torn apart. It would be better to have the conductor in tension but supported by the lower surface. This is not foreseen by the current version.