



Contribution ID: 122

Type: **Oral invited talk**

GEANT4 Condensed Matter Physics (G4CMP)

Wednesday, 14 May 2025 10:05 (20 minutes)

G4CMP has been developed as an extension to GEANT4 to excite phonons and charges in cryogenic semiconductor crystals in response to energy deposited by radiation. G4CMP is currently being developed towards superconducting processes in the developer's consortium, allowing for modelling the implanted BeEST signal. This talk will demonstrate the applications and value of G4CMP for simulating the BeEST experiment.

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Session Classification: Material Effects