



Contribution ID: 1585 Contribution code: TUODB3

Type: **Contributed Oral Presentation**

First demonstration of spin-polarized electrons from gallium nitride photocathodes

Tuesday, 9 May 2023 12:10 (20 minutes)

For the first time, photoemission of spin-polarized electron beams from gallium nitride (GaN) photocathodes are observed and characterized. The spin polarizations of the emitted electrons from epitaxially grown hexagonal and cubic GaN photocathodes activated to Negative Electron Affinity (NEA) via cesium deposition are measured in a retarding-field Mott polarimeter.

Funding Agency

This work is supported by DOE grant DOE-DESC0021002.

Footnotes

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Yes

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Session Classification: MC03.2 - Novel Particle Sources and Acceleration Techniques (Contributed)

Track Classification: MC3: Novel Particle Sources and Acceleration Techniques: MC3.T02: Electron Sources