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First demonstration of spin-polarized electrons from gallium nitride photocathodes

Sunday, 7 May 2023 16:00 (2 hours)

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

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Footnotes

I have read and accept the Privacy Policy Statement

Yes

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