

CV¹ for Jaideep Singh

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Education

- 2009 Ph.D. in Physics, University of Virginia** (expected mid summer)
Alkali-Hybrid & Traditional Spin Exchange Optical Pumping Polarized Helium-3 Targets for Precision Neutron & Helium-3 Spin Structure Measurements
Advisor: Gordon Dell Cates, Jr.
- 2000 B.S. in Physics, California Institute of Technology**
Polarization & Delivery System for Xenon-129
Advisor: Emlyn Willard Hughes

Research Interests & Experience

Polarized ³He targets, Alkali-hybrid & traditional spin-exchange optical pumping, Measurements of neutron spin structure, Parity violation in electron scattering, Hyperpolarized noble gas MRI, Alkali EPR RF Spectroscopy, Polarized noble gas polarimetry using NMR, Polarized ³He polarimetry using alkali EPR frequency shifts, Radiative corrections to electron scattering, Laser-beam shaping & modeling using gaussian optics, Paramagnetic Faraday rotation due to spin polarized alkali vapors, Thin-film laser interferometry, Pressure broadening of alkali D1 & D2 spectral lines

References

GORDON D. CATES, JR., Professor of Physics & Radiology, University of Virginia
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