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Optical Surface Reflectivity Characterization in Water Cherenkov Detectors: Methodologies and Industrial Applications

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Understanding the optical properties of various components in water Cherenkov neutrino experiments is essential for accurate detector characterization, which is critical for precise measurements. Of particular importance is the characterization of surface reflectivity within the Cherenkov volume. I will present a methodology for surface reflectivity characterization using a goniometer setup, addressing the challenges associated with measurements in both air and water (or other optical media). Additionally, I will discuss the broader implications of Bidirectional Reflectance Distribution Function (BRDF) measurements using a goniometer, including their industrial applications.

Do you need a VISA letter for traveling to Canada ?

No

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