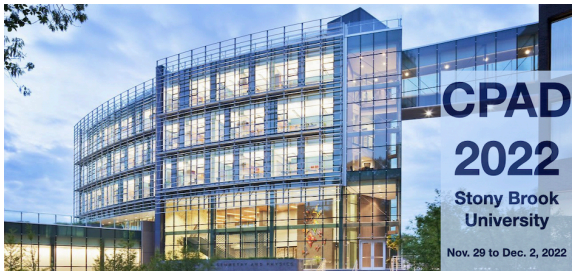

Contribution ID: **47** Type: **Contribution Talk**

CrystaLiZe: A Solid Future for LZ

Wednesday, 30 November 2022 10:35 (20 minutes)

We propose the crystalline xenon time projection chamber(TPC) as a promising novel technology for next-generation dark matter search. We expect it to exclude and tag radon-chain backgrounds while maintaining the instrumental benefits of liquid xenon TPC. We have built and successfully operated a crystalline/vapor dual-phase xenon TPC in Berkeley Lab. This talk will discuss its instrumental performance as well as recent results to demonstrate the radon exclusion power of crystalline xenon with respect to liquid xenon.

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