

Abstract Submitted
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Deconfined criticality in the presence of $SO(N)$ anisotropy
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quantum magnets have a rich phase diagram that hosts spin-nematic order, valence
bond solid order, and spin liquid behavior. The models can also be continuously
connected to well studied models of $SU(N)$ magnets that display deconfined quan-
tum criticality. We investigate the influence of the deconfined critical point on the
nearby phase diagram with $SO(N)$ anisotropy added.

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