

Abstract Submitted
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Fractional Quantum Hall Plateau Transitions and Composite Fermi Liquids¹ GIL YOUNG CHO, EUN-GOOK MOON, Korea Adv Inst of Sci Tech , EDUARDO FRADKIN, University of illinois at Urbana-Champaign — We will investigate relationship between the fractional quantum Hall plateau transition from Laughlin state at $\nu = \frac{1}{2n+1}$ to a trivial insulator, and composite Fermi liquid at $\nu = \frac{1}{2(2n+1)}$. We use the recently-developed quantum field theoretic technique, 3d dualities, in combinations with the coupled-wire descriptions for quantum Hall states. We will show that we can also access various other phases, including non-abelian paired states at $\nu = \frac{1}{2(2n+1)}$, from the plateau transition.

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Gil Young Cho
Korea Adv Inst of Sci
Tech

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