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Search for the QCD critical end point with finite-size succeptibility scaling functions[1] ROY LACEY, Stony Brook University — Finite-size and Finite-time effects complicate the search for the critical endpoint (CEP) as well as its characterization because they impose non-trivial constraints on the growth of the correlation length. Thus, the observation of non-monotonic experimental signatures for the CEP is not sufficient to identify its location and assign its universality class. In this talk, I will discuss how susceptibility scaling functions can be leveraged to locate and characterize the CEP. To date, this constitutes the only credible experimental approach to discovering and characterizing the CEP.

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