Inferring the equation of evolution of a thin-film superconductor ROTHA YU, Monash University, DAVID M. PAGANIN COLLABORATION, MICHAEL J. MORGAN COLLABORATION — We infer the equation of evolution of a thin-film superconductor that is known to obey an otherwise unspecified (2+1)-dimensional time-dependent complex Ginzburg-Landau equation, given measurements on the probability density of the governing complex field and gauge fields. The formalism is tested using simulated data.

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