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From chi-squared to Bayesian model comparison: Levy expansions of Bose-Einstein correlations in e+e– correlations

Friday, 13 July 2012 12:00 (20 minutes)

Abstract content
   (Max 300 words)

The usual chi-squared method of fit quality assessment is a special case of the more general method of Bayesian model comparison which involves integrals of the likelihood and prior over all possible values of all parameters. This is illustrated by various parametrisations applied to L3 experimental correlation data. Making use of increased discriminating power, we also introduce new parametrisations based on systematic expansions around the stretched exponential or Lévy source distribution.

Apply to be
 consider for a student
   award (Yes / No)?

Yes

Level for award
 (Hons, MSc,
   PhD)?

PhD

Main supervisor (name and email)
and his / her institution

Prof. Hans Eggers
University of Stellenbosch

Would you like to <br> submit a short paper <br> for the Conference
 Proceedings (Yes / No)?

Yes

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